CHEMIST AND DRUGGIST

RETAILER — WHOLESALER — MANUFACTURER
NOVEMBER 17, 1951

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Index to Advertisers pp. 5 & 6



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CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER
NOVEMBER 17, 1951

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NEWS OF THE WEEK

Medical Aid for Jamaica.—Surgical ruments and appliances and other medisupplies to the value of £400 are being on to Jamaica by S. Maw, Son & Sons, ... Barnet, Herts, to help the Governat alleviate suffering caused by hurrier recently.

the chemistry Research in 1950.—A report the chemistry research carried out at Chemical Research Laboratory, Tédgton, Middlesex, during 1950 was pubed recently (H.M. Stationery Office, e 3s. 6d.). Corrosion of metals, phoste fertilisers and inorganic chromatophy are among the subjects dealt with.

defigures show that average weekly s by independent chemists during Sepber were 7 per cent. higher than in sust and 21 per cent. higher than a ago. Figures for large-scale shops 2 per cent. and 13 per cent. higher ectively.

olonial Campaign Against Blindness.

1 a campaign against blindness and eye

diseases in the Colonies, launched by the British Empire Society for the Blind recently, the major part at first will be played by medical research. Six ophthalmological and entomological surveys are planned, and it is hoped that the first of the combined teams will leave Britain for West Africa early in 1952. Others are under consideration for East and Central Africa and for South-east Asia. Entomologists are included in the teams because so many diseases such as trachoma, and the dreaded onchocerciasis (carried by the simulium fly) are insect borne.

Open General Licence Changes.—Imports of certain commodities originating in and consigned from countries other than the scheduled territories (which at present comprise the British Commonwealth (except Canada), British Trust Territories, British Protectorates and Protected States. Burma, the Irish Republic, Iraq, Iceland and Jordan) will require an import licence from November 8. The Open General Licence referred to in appendices II and III of Notice to Importers No. 458 (see

G. & D., November 3, p. 573), has therefore been amended by the issue of two new notices (Nos. 463 and 464) by the Board of Trade. They should be read in conjunction with Notice No. 458. Among the changes made are the following: GROUP I, PART A (Food, etc.): Arrowroot, cocoa butter and honey are deleted. GROUP 3 (Oils, perfumery materials, etc.): Essential oils, natural, are deleted; also (inter alia) the following oils.—Almond (natural), oleic acid, olive, sperm, turtle, stearic acid. Group 5 (Chemicals, drugs, etc.): The only manufactured or prepared drugs, medicines and medical preparations that remain under O.G.L. are the following: - Ergotamine tartrate, chloramphenicol, lobeline hydrochloride, sera, vaccines, toxins and antitoxins. (The position of raw or "simply prepared" drugs and the like remains unchanged.) GROUP 13 (metal manufactures): Razor blades are deleted. Importers will be required to state the value of their imports during the period January 1 to June 30. Application forms and further particulars may be obtained from the Board of Trade, Import Licensing Branch, Romney House, Tufton Street, London, S.W.1.

LOCAL NEWS

Council Displays Chemists' Rota.— Folkeston town council is displaying in Corporation premises the chemists' weekly late-duty rota.

Factory Fire.—A fire broke out at the Dolphin Works, Ramsgate, of the Holborn Surgical Instrument Co., Ltd., on November 4. The damage extended to about one-third of the factory.



Members of the South-west London Chemists' Association at the works of Glaxo Laboratories, Ltd., Greenford, on October 24.

Whist Drive and Dance at Bath.—Bath Branch of the Pharmaceutical Society held a whist drive and dance on November 8. Arrangements were in the hands of Mr. L. E. Williams, M.P.S.

Branch's Help Sought.—Blaby (Leicestershire) rural district council are asking the Leicester Branch of the Pharmaceutica Society to assist them in finding a tenant for a new pharmacy on a council housing estate.

Annual Outing and Dinner.—Staff o James Woolley, Sons & Co., Ltd., Man chester, with wives and friends to a tota of 550 went by special train to Buxton recently to attend the company's sixtietl annual dinner. After dinner there wa varied entertainment and during the even ing Mr. G. S. Woolley (chairman) presented a cheque to Mr. Herbert Wood on his retirement and after forty-eight years service with the company (see C. & D. November 3, p. 583).

Manchester Analyst's Report. — Th Manchester public analyst reports that i 1950 one sample of cream of magnesi was found to contain four parts per mi lion of arsenic as As₂O₃ (three above th limit for arsenic of the British Pharma copæia). A warning was issued. Tw samples of eucalyptus oil were found t contain respectively 47 per cent. and 6 per cent. of cineole, against the 70 per cent. required by the B.P. No evidence added adulterants was forthcoming. Bot defendants stated that they had purchase the oils as B.P. quality and one unsucces fully pleaded warranty. Penalties were if flicted in both cases. Samples of spirit sal volatile were found to have the cor position of aromatic solution of ammon B.F.C., and two samples of tincture iodine were found to be respective according to B.P. 1932 and B.P. 1932 at B.P. 1948 (mixed) formulas.

IRISH NEWS

Ulster Chemists' Price List.—The Ulst Chemists' Association has sent to its mer bers price-change list No. 27, which co tains more than 100 price changes.

Memorial to Pharmacist.—A dignificappreciation of the late Mr. Patrick Cahill has recently been produced by P. Cahill & Co., Ltd. The frontispiece is picture of Mr. Cahill as an officer in the Irish Defence Forces. The text includes

any tributes from those who knew P.C." well over the most active years f his life.

Irish Drug Association .- At a recent eeting of the committee of the Irish Drug ssociation held in Dublin, Mr. D. Woulfe president) in the chair, it was recom-ended that letters appearing in newsapers concerning chemists' prices should e ignored, and that members should not nter into newspaper correspondence on ich subjects. It was reported that a oung, grey-haired woman, aged about irty and wearing horn rimmed glasses, as posing as a nurse and endeavouring obtain supplies of morphine for illicit urposes in Dublin and in the eastern unties. The following new members ere elected: Boyle's (Carlingford), Ltd., ewry Street, Carlingford, co. Louth; Miss . Liffey, The Pharmacy, Eyrecourt, co. alway; Messrs. M. J. Macken, I Newwn Avenue, Blackrock, co. Dublin and W. Tipping, The Pharmacy, Coolock, . Dublin.

Ulster Chemists' Association.—At the onthly meeting of the Executive Comttee of the Ulster Chemists' Association November 6 the president (Mr. C. A. uinn) congratulated Mr. H. W. Gamble his reappointment as president of the armaceutical Society of Northern Irend. He also expressed sympathy with c widow and daughter of the late Mr. mes Wilkinson (a member of the Assotion). The following were elected memrs: Messrs. H. O. Cooke, Bradbury ace, Belfast and M. Hodge, 183 Shankill ad, Belfast (branch). The following lose names had been approved by the sociates' Committee, were admitted to ociateship:—Ph.G.: Miss A. E. Staunn; Assistants: Messrs. B. A. McMullan, J. Gilmour, B. McCann, J. Pender; prentices: Miss M. B. Friel, Messrs. A. aig, E. Craig, J. Hamill, L. Lowry, McVeigh, A. Moore, S. Moore. Various ice changes and alterations were ap-The secretary (Miss A. E. (achan) reported that she had written the Parliamentary candidates in North-Ireland asking them not to commit mselves to support any proposals affectresale price maintenance until there d been opportunity for the issue to be ther examined. It was also reported at the Chemists Federation fortnight had in proved encouraging to the Northern land C.F. Committee.

OVERSEAS NEWS

Measures Against Goitre.—The Ceylon Medical Department, on the recommendation of a World Health Organisation specialist, is providing potassium iodide tablets for special cases and iodised salt for all as a means of combating goitre in the Dominion.

Antituberculosis Centre at Bangkok.—An international antituberculosis centre is being opened in Bangkok, Thailand. The new centre is one of several being set up with the assistance of the World Health Organisation and is designed as a demonstration and training centre for all aspects of tuberculosis control.

S.E. Asia Health Plan.—The fourth meeting of the South-east Asia Regional Committee of the World Health Organisation, held in Rangoon, Burma, during the period September 20-25, endorsed W.H.O. proposals for regional health programmes amounting to \$1,900,000 for 1952 and over two million dollars for 1953. They cover the control of malaria, tuberculosis, typhus, yaws, leprosy and venereal diseases, BCG vaccination, and assistance to governments in the local production of penicillia, DDT and other essential supplies.

Doctors Oppose Prescription Bill.—The American Medical Association is opposing a section of a Prescription Bill now being considered by the United States Senate health subcommittee. The Bill, if passed, would give the American Federal Security Administrator control over drugs supplied on prescription but capable of being sold over the counter. The Association has told the subcommittee that the Bill vests control of the drug industry in the administrator and "delegates to that agency the power to determine the therapeutic value of drugs-a decision that is a traditional and time-tested function of the medical profession." Under the Bill an estimated 30,000 drugs would be subject to regulations. The Association considers that that would put the average druggist under a tremendous burden in having to refer continuously to such a list to determine the status of each drug. "The immensity of the task would inevitably result in technical violations of no public health significance, and would probably require the addition of numerous enforcement officials.'

BRANCH AND ASSOCIATION MEETINGS

Two Months at Plymouth. - At a meeting of the Plymouth Branch of the Pharmaceutical Society on September 18 a representative of Milton Antiseptic, Ltd., gave an address (illustrated with a film) on "Hygiene in Infant Welfare." A dance to open the 1951-52 session was held on September 26, and an informal luncheon on October 18. On October 25 a meeting of the Branch was addressed by a representative of Kodak, Ltd., on "Colour and Common Sense," with lantern slide illustrations. Members of local photographic clubs attended as guests. At a meeting of the Plymouth Branch of the National Pharmaceutical Union held in the town recently, Mr. J. S. Stearns (treasurer of the Union) spoke on "Pharmacy Today and Tomorrow." Dealing with the value of the N.P.U. to the chemist, Mr Stearns said that the clearing-house alone saved the amount of the subscription in bank charges. The Chemists Federation should become the basis of the chemist's business if price maintenance disappeared.

Mr. Reid at Huddersfield.—Addressing the Huddersfield Branch of the Pharmaceutical Society recently on current pharmaceutical topics, Mr. T. Reid (a member of the Society's Council) said that the Council were doing their best to tackle the man-power problem realistically. Two contributory factors to the problem were (1) the need for male entrants to do military service, and (2) the percentage of female entrants who, on marriage, were mostly lost to the profession. In some districts that had been partly solved by forming a rota of married women who were prepared to do parttime work, thus easing the strain in the demand for qualified labour. He mentioned that the Huddersfield Branch was the first branch to give a gift in kind to Birdsgrove House. He regretted that the House Committee had been unfortunate in their choice of words in their recent announcement on gifts in kind to Birdsgrove. In a discussion which followed, Mr. Reid agreed with Mr. C. Thompson that the Council should give some publicity to the fact that penicillin can only be supplied to the public on a prescription.

Thanet N.P.U. Branch. — At a joint meeting of the Isle of Thanet Branches of the National Pharmaceutical Union and the Pharmaceutical Society held recently, an address on "Resale Price Maintenance" was given by Mr. R. H. Kemp

(assistant secretary, N.P.U.). News of a general election had thrown a different light upon his subject, said Mr. Kemp. As the number of "patents" on the marke grew they were at first pushed out of sigh but eventually advertising forced them to the fore. Then a price war commenced, the grocer and small trader "poaching" of the pharmacist's trade and cutting price until "under cost" products were offered as catchpenny lines. He related a stor of an apprentice who was sent to othe traders to buy from them articles which cost 101d. from the wholesaler and 8d or 9d. from the competitors- in order to resell them below cost rates without loss. I was during that time that the late Si William Glynn-Jones gradually formed society which was now known at the Pro prietary Articles Trade Association. Tha body had been examined by several gov ernment committees from time to tim but had always "come out on top" an enjoyed the support of most. The Fai Trading Congress, representing almost a retail trades, was revived at the end of the war and inaugurated the Fair Prices De fence Committee. Mr. Kemp urged phar macists to join with other retailers in fight to preserve the system of retail price maintenance.

LOCAL OFFICERS

Pharmaceutical Society except where otherwistated.

Sheffield Branch.—Chairman, Mr. W Firth; Vice-chairman, Mr. L. Newman and Secretary, Mr. S. Durham, 29 Stephe Hill Road, Sheffield, 10.

Eastbourne Branch. — Chairman, M. G. Checkley; Vice-chairman, Mr. H. Seath; Secretary and Treasurer, Mr. K. V. Hewish, 48 Coppice Avenue, Lower Willingdon, Eastbourne.

West Ham Association of Pharmacists. President, Mr. R. J. Maxey; Vice-presidents, Messrs. J. Reed and O. C. Womwell; Treasurer, Miss J. Cloud; Secretar Mr. W. H. Cloud, 45 Longbridge Roa Barking, Essex.

Bath Branch.—Chairman, Mrs. Q. N. Shutter; Vice-chairman, Mr. E. G. Elliot Secretary, Mr. T. Swain, Stonecrof Wellsway, Bath; Assistant Secretary, M. L. E. Williams; and Treasurer, Mr. C. I. James.

TOPICAL REFLECTIONS

roductivity in the U.S.A.

Mr. H. G. Rolfe's lecture on pharmaeutical industry in the United States (pp. 22-23) formed a useful supplement to the eport of the Pharmaceutical Productivity eam (of which he was the leader) sumnarised in your issue of September 8. It as also an agreeable change from the shionable lecture-subject of antihistamins. Nothing that British manufacturers an do is likely to neutralise the advantage the larger scale of working possessed v American manufacturing houses. Nor e prescribers in this country likely to der in the near future proprietary edicaments amounting to 75 per cent. of l substances prescribed. These differences tween conditions in the two countries ing understood, the problem next arising the taking of steps to improve British itput by reducing working costs. It may the case that, as the lecturer said, mericans are "much more prone to try mething new than are the British." If that is not an unmixed advantage; ere may be a few burnt fingers in process of trial and error. Where our American ends and competitors chiefly score is, I ink, in the more systematic use of achinery. In my visits to works the imession has sometimes been formed, even not suggested to me, that it is often tter to have a machine designed for a igle purpose than to purchase one selecfrom a manufacturer's catalogue. provements of this kind can be effected thout waiting for discussion with other nufacturers. Yet Mr. Rolfe's idea of a harmaceutical contact" committee to al with such points as sales of all liquids volume is a good one.

ernationalists at Salzburg

The Salzburg meeting of the Interional Society for the History of Pharcy (pp. 631-32) was an event of siderable importance. I was glad to ice, among the names of members pret, those of Dr. Fritz Ferchl, an occanal contributor to The Chemist and Cogist, and Dr. Otto Zekert, whose es of articles on the apothecary Johann Beethoven (brother of Ludwig van thoven) I read more than twenty years. The formation of this society followed t of the French Société d'Histoire de Pharmacie at an interval of thirteen rs; and the word Internationale was

prefixed to the German title of the latter on its revival in 1949. Proposals or suggestions of Salzburg for a society for the history of pharmacy international in the fullest sense of the word do not appear to have produced a definite plan: my guess is that the time is not quite ripe for that step. The logical course would be for the Society to request the American Institute of the History of Pharmacy, now the headquarters of research in this subject, to collate informed opinion with a view to setting up a world organisation with a constitution as sound as human foresight can make it. A draft constitution of a body of this kinddrawn up, I believe, by Dr. George Urdang-has already received publicity on the Continent.

A Letter from Dr. Wall

As was pointed out in one of your issues not long ago, medical men gradually ceased to write articles for general reading on diseases after medical journalism became fairly regular in the last two decades of the eighteenth century. Till then, people who could read intelligently were supposed to be interested in the subject, even to the extent of understanding technical terms. In November 1751 the famous Dr. Wall of Worcester sent to "The Gentleman's Magazine," which had been inviting medical contributions, a four-page letter on ulcerated sore throat. With a modesty that may surprise modern readers, he wrote: "I desire to throw my mite into the treasury." So substantial a mite may have been dictated to a secretary. Convinced by experience that "the cooling method" of dealing with this ailment was wrong, he based his treatment on "the bark and other antiseptic medicines." Patients were also directed to inhale, through a funnel, steam from a boiling mixture of vinegar, myrrh and honey, with the occasional addition of the Mindererus spirit of the Edinburgh Pharmacopæia. For weak patients a decoction or an extract of cinchona bark was to be preferred to the powder: unhappily, "in but very few shops is the extract to be depended on," However, there was in Kidderminster a firstrate apothecary who had treated 242 patients by Dr. Wall's method, and only seven of them had died. The decoction of cinchona was to be prepared with a gentle heat. Any emetic was to be based on carduus and "sal vitrioli." Xrayser

NEW COMPANIES

JAYMIL (PHARMACIES), LTD. (P.C.).— Capital £1,000. To carry on the business of general chemists, herbalists, etc. Reuben L. Miller and J. I. Kramer, directors. R.O.: 125 Green Lanes, Palmers Green, London, N.13.

Prior Chemicals, Ltd. (P.C.).—Capital £1,000 in £1 shares. To carry on the business of manufacturing, research, dispensing and analytical chemists and druggists, etc. Edward J. R. Lovelock and Charles H. Mellor, directors. R.O.: Picton Street, Salford, 7.

RENTON (CHEMISTS), LTD. (P.C.). — Capital £100. To carry on the business of manufacturing, photographic and general chemists and druggists, etc. Louis Renton, M.P.S., and Beatrice Renton, directors. R.O.: 5 Marlborough Parade, Green Lanes, London, N.4.

K.W. Chemicals, Ltd. (P.C.).—Capital £20,000. To carry on the business of manufacturers of and dealers in all classes of chemicals, etc. Cedric P. Percy, Kingsley Williams, and Charles J. P. Ball, directors. R.O.: Kern House, 36 Kingsway, London, W.C.2.

United Malting Co., Ltd. (P.C.).—Capital £50,000. To acquire the business of a maltster and manufacturer of and dealer in malt products carried on by Harry Jones, High Street, Wem, Salop, as the United Malting Co. Harry Jones chairman, R. Musgrave, Wilfred Musgrave and George A. L. Hanson, directors. R.O.: Old Bank House, High Street, Wem, Salop.

Company News

COATES & COOPER, LTD.—Mr. G. W. Brownlee, Ph.C., A.R.I.C. and Mr. G. A. Coates, M.P.S., have been appointed to the board.

T. & H. SMITH, LTD., Edinburgh.—Mr. V. F. Noel Paton has been elected chairman of the company on the retirement from the position of Mr. H. G. Sharp, who remains on the board.

Cow & GATE, LTD.—In announcing a one-for-one scrip bonus, the directors state that in the near future they intend to offer £1 million of unsecured loan stock to debenture preference and ordinary shareholders. A dividend of 7½ per cent. on the doubled capital is anticipated against 15 per cent, in 1950.

MARRIAGES

KEENAN—MCAULIFFE.—At Haddington Road Church, Dublin, recently, Donal Keenan, Elphin (a medical practitioner), co. Roscommon, to Kathleen Gertrude McAuliffe, M.P.S.I., Strokestown, co. Roscommon.

Sheldon—May. — At the Cathedral Salisbury, Southern Rhodesia, on November 3, Theo Frank Sheldon, Bindura Southern Rhodesia, to Evelyn Lucy May M.P.S., c/o Thurlow's Pharmacy, P.O Box 61, Bindura (formerly of Cumberland England).

DEATHS

Corfe. — At a nursing home in East bourne on November 2, Mr. Alfred Fred erick Corfe, Ph.C. (chairman, Corfe & Son Ltd., 5 Gabriel's Hill, Maidstone, Kent aged eighty-two. He served on the forme Kent Insurance Committee and presen Kent and Canterbury Executive Counc and was from 1933 a member of the Ker County Council, latterly serving as chain man of its county offices management committee. He was an active member of th Kent Education Committee and Ker River Board, and one of the founders of the Maidstone Orchestral Society, of which was chairman for twenty-one years.

CURRIE.—At an Edinburgh hospital, on November 5, Mr. Archibald Currie, Ph.C 6 North Fort Street, Leith, aged sevent seven. Mr. Currie was for over thir years in business at 102 Ferry Road, Leith before retiring in 1940. He took an activitient in pharmaceutical affairs and was member of the North British Executivalmost continuously from 1911 to 1939.

LYNHAM. — At Lausanne, France, r cently, Mr. Deryck Lynham (a director the International Chemical Co., Ltd., ar John Wyeth & Bro., Ltd., London), ago thirty-eight. Mr. Lynham started I career as assistant to the export direct of the International Chemical Co. in Lo don, and became a director in 1945. I had a special knowledge of Continent markets. In private life Mr. Lynham wactively interested in ballet — a subjeon which he had written several books.

WILKINSON.—At Belfast, on Novemb 5, Mr. James Wilkinson, M.P.S.N.I., Du cairn Gardens, Belfast. Mr. Wilkins qualified in 1930 and was a member the Ulster Chemists' Association.

PERSONALITIES

Mr. James G. Coleman, M.P.S. egistrar, Pharmaceutical Society of Irend), was called to the Bar by Mr. Jusce Murnaghan in the Supreme Court in



. Coleman with Mrs. Coleman after his call to

ublin on November 5. Many of Mr. pleman's pharmaceutical and other ends were present at the ceremony.

MR. A. W. KEITH, M.P.S., St. Andrews, to served with the 16th Battalion, Highlad Light Infantry, in France and Flanrs in the 1914-18 war, visited the battlelds recently. At Namur the Rotary Club ade him a guest of honour and, after esenting a banner from St. Andrews, he s himself given a banner from Namur.

MESSRS. S. P. CHAMBERS (finance direc-, Imperial Chemical Industries, Ltd.) d C. G. HAYMAN (a director of The stillers Co., Ltd.) are among thirty tish industrialists in a team formed by

Federation of British Industries and British Employers' Confederation ich is leaving for the United States to end a first International Conference of unufacturers in New York in December.

The distinction of being the first lady mber of the committee of the Leeds nch of the Pharmaceutical Society is d by Miss Florence Cousins, who was nember some years ago before removing Hove. Mrs. P. Branson and Miss L. Rding (see C. & D., October 27, p. 549), ned distinction of another kind: they re elected simultaneously on to an erwise all-male committee.

IR. DAVID' J. MAW (a director of S. w, Son & Sons, Ltd., Barnet) left Brit-

ain for a seven months' business tour on November 8. He is arriving at Fremantle and Perth, Australia, on December 4, and is to visit the major centres of Australia by air. On February 7 he travels by sea to New Zealand, returning to Australia to embark for Marseilles. Mr. Maw expects to be back in England in June 1952 after having visited agents and customers.

MR. J. REED, M.P.S. (chairman, East Metropolitan Branch, Pharmaceutical Society), in whose honour a dinner was held recently (see p. 653) is a founder-member of the Branch and was for eleven years its secretary. He was also a founder-member of the West Ham Association of Pharmacists (which dates from 1903), was its president in 1923 and 1947 and its secretary for nineteen year. He is secretary and chairman of the West Ham branch of the National Pharmaceutical Union and a member of the West Ham Pharmaceutical Committee and Executive Council.

Mr. Eric James Fitchett, Ph.C., one of the compilers of the C. & D.

refresher course, is chief pharmacist, Leicester Royal Infirmary. Himself a former student of the Leicester College of Technology, he was apprenticed with Wands, Ltd., Leicester, a n d passed the Phar-Chemaceutical mist Qualifying examination i n 1936. After a locum period as tenens in retail and



at the Leicester Royal Infirmary, he spent some time in the pharmaceutical department of the London Hospital, Whitechapel, and in 1938 was appointed assistant pharmacist at his present hospital. During the war he was appointed a temporary admiralty pharmacist (a civil officer) and served at the Royal Naval Hospitals, Chatham, England, and Sydney, Australia, and on the aircraft carrier H.M.S. Indefatigable. In August 1946 he resumed duties at the Leicester Royal Infirmary as deputy chief pharmacist, and was appointed chief pharmacist in 1947. He is a past-chairman, East Midlands Branch, Guild of Public Pharmacists.

TRADE NOTES

Fancy Goods Fair. — The Gifts and Fancy Goods Fair, 1952, will take place at Harrogate during the week January 14-18.

Now in Bottle Pack.—The British Drug Houses, Ltd., Graham Street, London, N.1, are packing Multivite tablets in bottles containing fifty pellets.

Export Inquiry.—A firm of agents in Athens, Greece, invites offers of 2,500 metric tons of copper sulphate. Particulars may be obtained from the Editor, C. & D.

Visible Analysis System.—Kalamazoo, Ltd., Northfield, Birmingham, 31, claim that up to 500 headings of analysis in one book can be achieved by their visible-analysis accounting system.

Photographic Competition Winner.— The photographic competition organised by "Picture Post" (see C. & D., June 16, p. 767) has been won by an official of the Ministry of Health, Khartoum: Dr. D. F. E. Bloss.

Christmas Gift Label.—An announcement by Steiner Products, Ltd., 66 Grosvenor Street, London, W.1, on another page, illustrates a Christmas greetings tag issued for Steiner hand milk, and draws attention to other specialities of the company.

Trusses Under N.H.S.—John Bell & Croyden, surgical appliance department, Wigmore Street, London, invite inquiries relating to trusses and elastic hosiery, suspensory bandages and other appliances available on EC10 forms. A catalogue is available.

Concentrated Gargle.—On another page C. J. Hewlett & Son, Ltd., 35 Charlotte Road, London, E.C.2, give packs and prices of Formalgar concentrated gargle and mouth-wash, containing formalin, glycerin of phenol, tincture of pyrethrum, chloroxylenol, etc.

Ferrous Gluconate in Elixir.—In Elixir Cerevon the makers, Calmic, Ltd., Crewe Hall, Crewe, present (for the first time, they claim, in this country) the ferrous salt of d-gluconic acid, containing 11.5 per cent. iron, 95 per cent. of which is in the ferrous state. Details of packs and propaganda appear on another page.

Now Tax-free. — The British Drug Houses, Ltd., Graham Street, City Road, London, N.I, have been notified by the Customs and Excise authorities that Ferbelan children's tonic is no longer subjeto purchase tax. The product contain iron and ammonium citrate, vitamins and B₁₂, nicotinamide, and riboflavine. Tonew retail price per 4-oz. bottle is 3s. oz.

Vitamin B₁₂ Injection.—The Distille Co. (Biochemicals), Ltd., Speke, Liverpo 19, have made available as Distivit B₁₂ injection solution of crystalline vitamin F Distribution is through Burroughs We come & Co., Evans Medical Supplies, Lt and Imperial Chemical (Pharmaceutical Ltd. Distivit B₁₂ is issued in ampoules 1 mil containing 20 microgm. in box of 5 x 1-mil ampoules. Literature is ava able on request.

Scientific Instruments Handbook. The directory and handbook of the Scietific Instrument Manufacturers' Assoction of Great Britain, 20 Queen An Street, London, W.1, a stiff-bound volun of 250 8-vo. pages, provides information the history of the British scientific strument industry and includes a direct of 104 instrument manufacturer-membof the Association, and an index (20 I cent. larger than in the previous edition of about 2,500 scientific instruments.

Changes of Pack.—Allen & Hanburi Ltd., Bethnal Green, London, E.2, ha made available dihydrostreptomycin sphate in 5-c.c. vials each containing mega unit (equivalent to 1 gm. dihyd streptomycin base). They have also int duced chloramphenicol, B.P., in screcapped vials each containing 5 gm.—Elman, Sons & Co., Ltd., Slough, Buc illustrate on another page a new pathat has been adopted for Elliman's U versal embrocation. Window display ter are given.

Soluble Dressing. — Furacin soludressing, introduced to chemists on Noveber 12 by Menley & James, Ltd., 1 Coldharbour Lane, London, S.E.5, or tains 0.2 per cent. nitrofurazone in water-soluble base. It is particularly commended in first-aid procedure burns. The active ingredient has a wantibacterial spectrum and is effective the presence of blood, pus, serum a fæces. Furacin dressing is available in 2-tubes and 4-oz. and 16-oz. jars. A solutiof the active ingredient for topical approaching is available in 2-oz., 4-oz. and 16-bottles [Corrected note].

Product Changes. — Harker, Stagg, d., 8 St. George Street, Hanover Square, andon, W.I, announce that, from Decemr I, the 4-oz. pack of Procid eye lotion II no longer include an eye bath. From at date the preparation will be exempt om purchase tax and will retail at 2s. 6d. he special bonus offer of thirteen to the z. remains in operation. Messrs. Harker, agg also announce that the range of ocid gynæcological preparations has been creased to include pessaries containing .5 per cent. sodium propionate in a mpressed hydrophilic base, presented in ntainers of fifteen and 150.

Dish Support for Photographic Thermneter. — A fitment designed to stop a bular thermometer from rolling from le to side in the developing dish, which may be used to hang the ermometer in any developing been introduced by Ilford, Ltd., ord, Essex. Two adjustable clips, spotlded to the main stainless steel support, pressed in to fit snugly around the ermometer casing. The support, which easures $10\frac{3}{4}$ in. $x \frac{3}{8}$ in., has a hook top d bottom, allowing it to hang on the ge of the tank or dish, while the lower rt supports and protects the bulb of e thermometer.

Chlorcyclizine Cream.—Intended for ternal application in urticaria and der-



atitis, Histantin cream, issued by Burughs Wellcome & Co., 183 Euston Road, ondon, N.W.I, contains 2 per cent. lorcylcizine in a water-miscible base.

Perfumery Material.—Under the name agranol, Gale & Mount, Ltd., 37 Rothsild Road, London, W.4, have introduced new perfumery raw material derived from ranium terpenes by hydroxylation over a cial catalyst, thus considerably increas; the specific gravity and introducing a 5h percentage of geraniol, rhodinol,

citronellol and a percentage of citronellal. An analysis of the product (an average of six months' output) is as follows:—

Specific gravity d150 =0.910-20; refractive index

n²⁰°=1.476-80; optical rotation ∝D=1-3°; saponi-D

fication value=26.4; hydroxyl value=134.

The resulting product possesses a strong sweet basic odour with an interesting green herbal note, and has been found by the producers most useful in rose compositions and the sweeter types of Colognes.

PRICE CHANGES

(I.R.P.=Inclusive Retail Price) Doz. Tax I.R.P.0/0 s. d. s. d. Burroughs Wellcome & Co. (from November 19) Ergometrine maleate: -Tabloid brand compressed 0.5 mgm. 25 42 165 825 o Tabloid brand hypodermic 6 0.125 mgm. 12 0.5 mgm. 22 Wellcome injection 0.125 mgm, 12 0.5 mgm. 12 100 213

PROPRIETARY ARTICLES TRADE ASSOCIATION

Alterations to the Protected List (Part 1) (I.R.P.=Inclusive Retail Price) I.R.P.Doz. Tax d. d. s. Medo-Chemicals, Ltd. Orapenicil tablets (50,000 international units) 10's 48 6 0 Orapenicil forte tablets (100,000 i.u.) TO'S 64 Nil 8 0 tablets Orapenicil (500,000 i.u.) Nil 10's 90 3 Horofemin tablets, 0.1 mgm. 100's 14 250's Nil 24. 0 3 Nil 500's 1,000's Nil o 6 o.3 mgm. 100's 18 Nil 2 3 250's 32 500's 52 1,000's 90 o 11 3 100's Nil 1.0 mgm. 22 0 2 Nil 250's 0 78 Nil 500's o 18 1.000's 144 Nii Nil 5.0 mgm. 100's o 6 44 5 250's 100 6 Nil 500's 186 23 3 Granto Laboratories, Ltd. 50's Plesox tablets 100's 39 66 o $33\frac{1}{3}$ $33\frac{1}{3}$ $511\frac{1}{2}$ 200's o 10 I Plesolax tablets 50's 21 0 $33\frac{1}{3}$ 3 21 Gravonit tablets 70's $\frac{39}{66}$ O 5 $-11\frac{1}{2}$ $33\frac{1}{3}$ 140's 10 335 Allen & Hanburys, Ltd. 21-fl. oz. Glycurrant 6 16 $33\frac{1}{3}$ cough linctus 5-fl. oz. 30 334 4

HEALTH SERVICE IN NORTHERN IRELAND

(Concluded from The CHEMIST AND DRUGGIST, November 10, p. 621).

THE minutes of the Medical Advisory Committee recorded that the Committee had decided to invite the opinion of the British Medical Association on the subject of the supply of PAS to the Board's patients, and if necessary to communicate with the Ministry. (Originally the Ministry had decided, on the grounds of expense, to put the arrangements for the control and distribution of PAS in the hands of the Tuberculosis Authority.) the request of the Drug Pricing Committee, the Committee decided to inform the Local Pharmaceutical Committee that the Board disapproved of chemists sending circulars describing new products to doctors.

The Local Pharmaceutical Committee later stated that they would inform all

chemists accordingly.

Hormones and Hormone Preparations

The Drug Pricing Committee, at the request of the Medical Advisory Committee, expressed the opinion that Ovendosyn was a borderline case but could be considered in some circumstances a hormone preparation on the basis that it was an admixture of stilbæstrol with an inert substance, calcium phosphate. They agreed that in any case where a substance contained a hormone and another drug which was included for its therapeutic effect, such a substance could not be regarded as a hormone preparation but as an admixture containing a hormone. The Committee further agreed that inhalant fluids came under that heading and could not be regarded as hormone preparations. Dextran was held to be a drug forming part of the pharmaceutical services.

The Medical Advisory Committee were informed that the Tuberculosis Authority had written inquiring if arrangements might be made whereby PAS would be available through the Health Service to domiciliary tuberculous patients on the authorisation of the Authority's Medical Officer. At present such patients were supplied with the drug at Authority-controlled clinics and they considered it desirable that patients should obtain supplies through a chemist. The Authority outlined the procedure proposed in the event of such an arrangement being made.

THE ASSISTANT SECRETARY said that the views of the British Medical Association on the present arrangements for the supply of

PAS had not yet been received. T Committee decided to refer the Authorit letter, together with the letter from t B.M.A. when received, to the Ministry Health and Local Government.

A letter was received from a doctor the prescribing of Roter tablets in sponse to which it was decided to quest the Medical Research Council forward a report on the therapeutic val of such tablets. It was reported to t Drug Pricing Committee that a chem had been interviewed with regard to t dating of his prescriptions as decided a previous meeting of the Committee. letter was afterwards received from the chemist authorising the Board to trans from his November and January bundles forms dated during December. The Committee agreed that an adjustment shot be made on that basis.

A chemist's £193 10s. 11d. bill for p scriptions for one patient over a per: of six weeks was described as "a v staggering account." The Secretary t the Board that the case, reported by Medical Advisory Committee, appeared be one of excessive prescribing. Dur the period the doctor had prescribed the patient 2,340 c.c. of Anahæmin a 400 Veganin tablets as well as other dru The Board upheld the action of the Co mittee in submitting the case to the C tral Medical Committee for the assessm of the amount of the over-prescribing. any, so that the excess part of the c could be recovered. Dr. J. H. P. said that, while not disagreeing with procedure, he thought that the size of si a drug bill for such a period showed t the doctor was not afraid to carry out fu all the terms of his participation in Health Service scheme and was prepa to prescribe whatever he considered nee sary for his patient.

Testing and Costs

A TRIBUTE by Mr. L. G. P. Freer, C.B Permanent Secretary to the Ministry Health and Local Government, to the wof chemists under the Health Service contained in the report of the Commiton Public Accounts, Northern Ireland, 1949-50, published recently.

The Comptroller and Auditor-Genestated in his report that little progress been made by the General Health !

ces Board in developing the system of spection for testing the quality and mount of supplies by chemists. Only sixen tests had been made up to November 950. The results of the first six tests ere, after re-analysis in two cases, found be in order.

When Mr. Freer was asked by THE HAIRMAN at a meeting recently about rogress of the system of inspection he id: "We find very little wrong, and our eneral experience of the chemists is that ley are a most conscientious body of en." Asked whether sixteen tests out of total of 4,334,778 prescriptions could be garded as an effective test, Mr. Freer plied: "In our view the standard of disensing is very high. It is done by highly illed people and there are obvious risks doing it wrong. Therefore there are insiderable deterrents. If there is any relessness in a chemist's shop it might very ell ruin him.'

A member of the Committee expressed the view that the only place where the osts of the pharmaceutical services could be controlled was in the doctor's surgery and that if over-prescribing could be controlled it would be much more effective in reducing costs than taking sample checks of prescriptions.

Mr. Freer commented that the Ministry was very concerned about the number of prescriptions and the cost of the service. However, compared with prescription figures in Great Britain those in Northern Ireland were not relatively so high In England in 1949 the cost per head was 15s. 6d. (but varied widely according to district). In Northern Ireland it was 17s. 1d. In a rural area like Huntingdon, however, it was something like 10s. When it was pointed out that Northern Ireland is also largely rural, Mr. Freer said there was a high incidence of sickness, 7 per cent. of the insured population against 4.4 in Great Britain, especially in the case of women. Eighteen per cent. of the insured persons who were married women were sick. He thought that the cost per head varied roughly according to percentage of unemployment.

HARMACEUTICAL SOCIETY OF GREAT BRITAIN

MEETING of the Council of the Pharmautical Society was held in London on ovember 6 and 7, the president (Mr. C. Wilson) in the chair.

THE PRESIDENT announced with regret e deaths of Mr. Currie (see p. 646) and ofessor Perrot (C. & D., November 10, 616). An apology for absence was reived from Mr. J. F. McNeal.

A letter was read from the King's pri-

A letter was read from the King's prite secretary expressing thanks for the essages sent to him on the occasion of sillness by the Council and the French harmaceutical Society.

MR. D. W. Hudson presented a report the third meeting of the Franco-British harmaceutical Commission held in Paris 1 October 13, which stated that it was oposed to organise a Franco-British harmaceutical Congress in France in ay 1952, on similar lines to that held in righton in May. Arrangements were ade for an exchange of lectures between e two countries in 1952. It was proposed that the lecturers from France ould be Professor M. Guillot and M. Morice, and from Britain Mr. F. C. Ilson and Dr. J. M. Rowson.

niversities in both countries were willing

co-operate in exchanges of graduates for

search work. A project for inviting a

party of French pharmacists to visit London hospitals at Easter 1952 had been welcomed in France. Other arrangements being made for 1952 included reciprocal visits to annual meetings of manufacturers, and exchanges of letters of introduction, students, and pharmacists' children. The French representatives were examining the possibility of achieving reciprocity in the admission of foreign pharmacists to their registers.

The Education Committee reported that the University of London wished to discontinue the present system of joint inspections of schools of pharmacy in view of the requirements for the new B.Pharm. (Hons.) degree, while maintaining the close co-operation between the University and the Society. On the Committee's recommendation the Council agreed to inform the University that the Society understood the reasons for the University's views and accepted co-operation on that basis.

The Benevolent Fund and War Aid Committee's report showed that grants amounting to £61 had been made to a member and a widow. The Council approved a recommendation for a grant of £208 to a member. No grant was made in a further case, and one application was deferred. From the War Aid Fund a grant

of £107 was made. A recommendation for Christmas gifts of £5 to each of fiftyseven annuitants, and of £2 2s. to each of nineteen orphans, was approved. committee recommended and the Counapproved that two annuitants should be elected at the December meeting, the amount of the annuity to be £50 in each case. The names of recommended candidates were also approved. The Warden reported to the Birdsgrove House subcommittee that during the previous three months sixtyeight guests had stayed at the home for an aggregate of 127 weeks. In the corresponding months of 1950 there were seventy-nine and 154. The Committee agreed with a suggestion that a full-size billiards table would improve the amenities of the home and that a room to be furnished by the Cardiff Branch should be renamed "Cardiff." Mr. T. Reid (chairman of the Organisation Committee) asked that members of Council when visiting branches should mention the attractions of Birdsgrove House for convalescence during the winter.

Birdsgrove House Charges

The committee recommended that the charge for visitors to Birdsgrove House, other than convalescents, should £1 11s. 6d. for a seven-day week, or 10s. 6d. per night with a maximum charge of £1 11s. 6d. for any part of such week. MR. F. G. Wells pointed out that the price for visitors was the same as for convalescents. Surely the visitors could afford to pay more. Mr. HESELTINE said that if a guest took a convalescent to the house and stayed for a week-end he should not have to pay more. Birdsgrove House was not intended to be a "money making affair." MR. G. SHAW said that the charge of £1 11s. 6d. per week for a visitor was agreed when the house was founded, but MRS. J. K. IRVINE said that financial conditions were different when that decision was made.

Mr. HESELTINE said that they were discussing only four or five cases a year. THE President said that a person accompanying a convalescent could be of assistance to the house. Another member said that the company of a wife or husband was part of the convalescence. Miss M. A. Burr added that most guests, in addition to paying the £1 11s. 6d., made a substantial donation. The Council agreed, on the motion of Mr. A. A. MELDRUM, seconded by Mr. F. G. Wells, to refer the matter back to the Committee.

The Council approved its draft interin report on resolutions passed at the Branch Representatives' meeting in May. It de cided that the postponed meeting of phar macist members of hospital managemen committees under the National Health Ser vice should be held on December 7. In vitations are to be extended to all member of the Public Services Committee

Military Medicine Congress

The report of the Public Services Com mittee called attention to a meeting of the technical pharmacy commission of the In ternational Congress of Military Medicine and Pharmacy to be held in Paris in De cember, at which the position of countrie such as Great Britain, which are withou a military pharmaceutical service, would be considered. It was agreed that Mr W. K. Fitch should attend the meeting or

the Society's behalf.

In England and Wales in Octobe eighty-four candidates entered for the Chemist and Druggist Qualifying examina tion; fifteen of them passed, fifteen were referred, forty-seven failed and seven wer absent. Fifty-two entrants for a referred subject passed and twelve were again re In Scotland there were eighty nine entrants, of whom twenty-sever passed, eighteen were referred, thirty-nine failed, and five were absent. Forty-fivout of forty-eight candidates passed in referred subject.

Five applications for approval of hos pitals for practical training were granted and three were deferred. Since the previ ous meeting 159 applications from phar macies were stated to have been granted The Education Committee approved forty one additional applications as recommended by the inspectors. A further ap plication from a pharmacy was approved after the receipt of a special report. In vigilators and deputy invigilators wer

appointed.

THE REGISTRAR reported that since th previous meeting 169 persons had been registered as apprentices or students, mak

ing 862 in the current year.

The Law Committee reported that, it September, the Society's inspectors and agents had visited 1,300 authorised sellers 308 lister sellers, and 781 drug store pro prietors and similar traders. Four case of alleged infringements of the Pharmac Acts were considered, and action taken.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, November 19

LONDON MEDICAL EXHIBITION, New Horticultural Hall, Greycoat Street, London, S.W.1. 11 a.m. to 6.30 p.m. daily until November 23.

Tuesday, November 20

ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOCIETY, Tiger Inn, Pontmorlais, Merthyr, at 8 p.m. Mr. T. R. Morris (an inspector of the Society) on "Forensic Pharmacy."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, South Devon and East Cornwall Hospital, Fredom Fields, Plymouth, at 7.30 p.m. Mr. S. F. Woodward (Glaxo Laboratories, Ltd.) on "The Production of Antibiotics."

WEST MIDDLESER CHEMISTS' ASSOCIATION and BRANCH, Feathers Hotel, Broadway, Ealing, London, W.5, at 8 p.m. Mr. F. W. Adams (registrar of the Pharmaceutical Society) on "Some Aspects of Foreign Pharmacy."

Wednesday, November 21

BOURNEMOUTH, PORTSMOUTH and SOUTHAMPTON
BRANCHES, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 6 p.m. Regional conference. Transport from Portsmouth at 4 p.m.

BRIGHTON AND HOVE BRANCH, PHARMACEUTICAL SOCIETY, King Alfred restaurant, Kingsway, Hove, at 7.30 p.m. Members' social evening. Ticket 7s. 6d.

Sheffield Branch, Pharmaceutical Society, Grand Hotel, Leopold Street, Sheffield, at 7.45 p.m. Mr. I. Macdonald on "Business Trends in Pharmacy."

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Sunderland technical college, at 3.30 p.m. Presentation of prizes by Dr. J. M. Rowson (curator of the Society's museum). Seaburn Hotel, at 7.15 p.m. for 7.45 p.m. Dinner.

Wimbledon Branch, Pharmaceutical Society, Berkeley rooms, Zeeta House, Putney High Street, London, S.W.15, at 6.45 p.m. Annual dinner and dance. Ticket 25s. from Mr. T. James, 385 Durnsford Road, Wimbledon, London, S.W.19.

ULSTER CHEMISTS' ASSOCIATION, 73 University Street, Belfast, at 2.45 p.m. Annual meeting.

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Thursday, November 22

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIA-TION, Hulme Hali, Port Sunlight, Ches. Carni-val dance. Ticket 10s. 6d. from Mr. M. B. Harrop, 8 Balls Road, Birkenhead, Ches.

CHESTERFIELD BRANCH, PHARMACEUTICAL SOCIETY, Boardroom, Royal Hospital, Chesterfield, at 7.30 p.m. Address by Mr. F. C. Wilson (president of the Society).

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Nayland Rock Hotel, Margate, at 7 for 7.15 p.m. Dinner and dance. Ticket 128, 6d.

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Metropole Hotel, Leeds, at 7.45 p.m. Mr. S. J. Batchelder (secretary, Leeds Chamber of Trade) on "The Work of a Chamber of Trade."

NORTH LONDON PHARMACEUTICAL ASSOCIATION and BRANCH, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.30 p.m. Dance. Ticket 10s.

SOMERSET BRANCH, PHARMACEUTICAL SOCIETY and NATIONAL PHARMACEUTICAL UNION, Bekynton café, The Square, Wells, at 5 p.m. Tea, At 7 p.m., address by Mr. H. Steinman (a member of Council, Pharmaceutical Society, of N.P.U. Executive, and of N.H.S. Joint Negotiating Committee).

THAMES VALLEY DISTRICT PHARMACISTS' ASSOCIA-TION and BRANCH, Kingston Hotel, Kingston-on-Thames, at 7.45 p.m. Mr. A. L. Dyke (H.M. deputy chief inspector, Home Office) on "The Working of the D.D. Branch at the Home Office" Office.

ORQUAY BRANCH, PHARMACEUTICAL SOCIETY, Windermere (Y.W.C.A.), Abbey Road, Torquay, at 7:30 p.m. Mr. D. M. Jennings (superintendent, Bristol Pricing Bureau) on "The Pricing Bureau and its Work." Torquay

Friday, November 23

CROYDON PHARMACISTS' ASSOCIATION AND BRANCH, Café Royal, North End, Croydon, at 8 p.m. Mr. A. L. Bacharach (Glaxo Laboratories, Ltd.) on "How Laboratories Use Animals."

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial Hotel, Hull, at 8 p.m. Mr. G. H. Parsons (technical manager, Agfa, Ltd.) on "Agfacolor Processes."

DINNER TO MR. J. REED

THE East Metropolitan Branch of the Pharmaceutical Society held a dinner at Ilford on November 1 in honour of their chairman (Mr. J. Reed, M.P.S.). Proposing the toast of the evening Mr. W. J. TRISTRAM, M.P.S. (vice-president of the Pharmaceutical Society) described Mr. Reed as a "pharmaceutical veteran" and enumerated the offices that Mr. Reed had held in the West Ham Association of Pharmacists and in the Branch. When he was secretary of the Branch over £3,000 had been raised in the district for the Society's Benevolent Fund. Mr. Reed replied and handed to Mr. Tristram a cheque for £244 12s. 3d. which had been raised by the Branch members for Birdsgrove House.

The cheque was intended to provide for the refurnishing of a room and it was hoped that the room would be named "East Metropolitan." The toast "The visitors" was proposed by Mr. H. L. Crossley, M.P.S. (secretary, Walthamstow Branch, National Pharmaceutical Union), and responded to by Mr. H. Bateman (clerk to the West Ham Executive Council). Mr. Reed then presented an illuminated address, subscribed for by Branch members, to Miss Agnes J. P. McBride, M.P.S. (chairman, 1950-51). The dinner was followed by dancing at which the M.C. was Mr. G. P. Bowen, M.P.S. (vice-chairman). A cabaret during the evening included a performance of magic by Mr. P. G. Flood, M.P.S., and songs by Mr. D. Evans, M.P.S.

FINE CHEMICALS IN PHARMACY

A JOINT meeting of the National Association of Women Pharmacists and the East Metropolitan Branch of the Pharmaceutical



Mr. J. C. Hanbury

Society, held in London on October 11, was addressed by MR. J. C. HANBURY on "The Use of Fine Chemicals in Pharmacy, 1700-1900," Miss M. A. Burr (president, N.A.W.P.) was in the chair.

Mr. Hanbury said that relatively pure chemicals began to appear in the prescriptions of

the period—about 1697—when doctors began to employ their own dispensers and to discourage patients from going to the apothecaries. At the beginning of the nineteenth century the chemists and druggists handled mainly the vegetable drugs, though they used chemical substances to some extent. Those they used were purified from natural sources. The manufacture of those chemicals was largely undertaken in the retail establishments from which the famous manufacturing houses of today—May & Baker, Whiffen, Morson, Allen & Hanburys (then Allen & Howard)—were derived.

The chemicals known and used at the beginning of the nineteenth century included hydrochloric, nitric, sulphuric, acetic, citric, tartaric and benzoic acids. The mild and causic alkalis of potassium and sodium were also known, as well as the commoner metals, so that many salts were made and used. Sulphuric acid, then as now, was an important basic chemical, and the annual consumption in 1822 was estimated at not less than 3,000 tons. Many of the metallic oxides and sulphides were prepared by sublimation, and numerous difficulties must have been met by manufacturers.

Fascination of Mercury

Mercury appeared to have a fascination for the chemists of that day. The 1815 Pharmacopæia described ten different oxides, sulphides and salts, the most widely used being calomel. Prior to 1800 that salt was of bright yellow colour, but in

1808 there was patented an improved pro cess worked out by Joseph Jewell, an ur qualified and self-taught man in the en ploy of William Allen and Luke Howar of Lombard Street. Jewell, a man of humble origin, became, without forma qualifications, one of the foremost pract cal industrial chemists of his day. description of a fire at Plough Cour caused, during the preparation of ethe by "one of them holding a lantern for of five yards off, with a lighted candle i it, to afford me just enough light to see ho to pour in into the funnel," gave a vivi picture of the hazards of making inflan mable and explosive chemicals with th equipment they then possessed.

Pupils of Doctor/Chemist

Many medical men of the day intereste themselves in chemical manufacture, an a Dr. B. Higgins built a large experiment: laboratory in South-east London. At lea three of his pupils achieved eminence i the chemical world—William Allen, Lul Howard and Richard Phillips. Thoug such laboratories were largely experimenta commercial manufacturing carried on-for example the manufactur of iodine by Dr. Ure of Glasgow. Iodir was first isolated in 1812, and bromine i 1826. Analytical reagents made their fir. appearance about the year 1800, whe William Allen presented a case of "te chemicals" to his friend Professor Picte of the Swiss International Institute. Malle able platinum was made for the first tim by one of William Allen's pupils—Thoma Cook-in 1805.

At the end of the eighteenth century Dr. Beddoes, of Bristol, experimented wit the inhalation of gases for the treatmer of chest diseases, and discovered the effect of ether in promoting sleep. He also es amined with Sir Humphry Davy, in 1886 the stupefying effect of nitrous oxide. H made the suggestion that that gas migh be used for the relief of pain during surg cal operations, and fifteen years later th same suggestion was made with regard t ether. Yet the first major operation unde ether as a general anæsthetic was not mad until 1846. Although ether was regularl manufactured by nearly all the manufactured turing chemists of that time, chloroforn appears to have been made almost ex clusively by Edinburgh chemists unt about 1870.

Drganic Chemicals

In 1828, Wholer synthesised urea and hus began the manufacture of a wide ariety of organic chemicals. The first of he aniline dyes was synthesised by Sir Villiam Perkin in 1856. The discovery nd isolation of many of the pure chemial substances responsible for the biological ction of vegetable drugs was largely the ork of the French. Morphine was isopork of the French. Morphine was iso-ted in 1804, and emetine, strychnine, uinine and the cinchona alkaloids soon ollowed. Thomas Morson, a young chem-t and druggist apprenticed at a phar-lacy in the Fleet Market, Farringdon treet, visited Paris in 1818 and became the reference of alkaloids. His first price list olation of alkaloids. His first price list dvertised the availability of about a dozen lkaloids and alkaloidal salts and he later troduced a series of chemical reagents. troduced a series of chemical reagents. forsons first prepared creosote (extensively sed in the mid-century for the purification of drinking water) by the distillation of altic pine tar. The wide variety of fine hemicals available by the middle of the ineteenth century is shown by the catabout of the Great Exhibition of 1851.

The laboratory notebooks kept by Daniel lanbury during his attendance at the harmaceutical Society's House, Blooms-

ury Square, between the years 1842 and 845 showed that the following preparaons were made by him during a course f lectures given by Mr. George Fownes: lver from a silver coin, oxide of silver for shop sale photogenic paper, pure rsenic acid, chromic acid, sulphate of ickel, chromate of mercury and mercuric xide. Under the direction of J. T. Barry e also undertook the examination of a ample of aconite which had recently been

urchased.

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leginning of Aseptic Surgery

In 1865 Joseph Lister began the systemtic use of carbolic acid in aseptic surgery nd it was the pharmacist W. Martindale tho drew his attention in 1886 to the ouble cyanide of mercury and zinc, a salt hat was a speciality of Morsons at that gard n unt ime.

Following the discovery of synthetic dyetuffs by Perkin and Hoffman, a host of rganic chemicals were produced in Gernany. Aspirin, phenacetin and amidopyrin ppeared in rapid succession, followed by rontosil and adrenaline, the first of the ormones.

INQUESTS

Aspirin Idiosyncrasy.—At an inquest at Warrington, Lancs, earlier in the year on a fifty-four-year-old man, who, according to medical evidence, had died from toxæmia after taking aspirin, a pathologist stated that the man had a toxic reaction to aspirin owing to a personal idiosyncrasy. The aspirin tablets caused serious hæmorrhages Although widely used, in the stomach. aspirin could be dangerous. About ten tablets taken at one time might be sufficient to produce the results. The dead man's widow stated that her husband had taken aspirin for a headache.

Tablets Wrongly Eaten by Infants.— Recording a verdict of accidental death at an inquest at St. Pancras, London, recently on an eighteen-month-old girl who died after swallowing tablets containing strychnine, the coroner (Dr. W. Bentley Purchase) said the mother had been prescribed the tablets and had been told they contained iron. She considered them harmless. "These tablets are deceptive, as they are sugar-coated and taste sweet," he said. -At the Halifax coroners' court recently a verdict of accidental death was recorded at an inquest on a two-year-old boy who had obtained, from a "rubbish drawer" pills prescribed for older children. The director of the forensic laboratory, Wakefield, said that the drug which the pills contained was "comparatively new" and had varying affects on different individuals.

Incorrect Ampoules.—At an inquest at Ballymoney, co. Antrim, Northern Ireland. recently, on two babies who had died Robinson Memorial Hospital, in the Ballymoney, it was stated that the cause of death was asphyxia, following an injection of a toxic mixture of penicillin and Flaxedil. A staff sister who handed the ampoules of Flaxedil solution to the surgeon who had prescribed penicillin and prepared the injection said that the colour of the boxes of Flaxedil ampoules had been changed to that of the hospital's stock boxes containing distilled water ampoules. There was nothing to distinguish between the ampoules except the transparent lettering on them. The jury returned a verdict of misadventure, in accordance with the medical evidence, and recommended that phials and boxes of drugs should be marked more distinctly and stored in such a way as to minimise the possibility of confusion.

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Professional Literature

Professional literature, copiously illustrated wit medically attested photographs, and research literatur references, is available on request from Internations Laboratories Ltd., Dept. PA13, 18, Old Town London, S.W.4.

The DRUGGIST

RETAILER—WHOLESALER—MANUFACTURER
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ficial organ of The Pharmaceutical ciety of Ireland, The Pharmaceutical ciety of Northern Ireland, The Chemists' d Druggists' Society of Ireland and of her Chemists' Societies in the Empire.

DL. CLVI NOVEMBER 17, 1951 No. 3743

Stemming the Tide

HE gravity of the new financial and reign exchange crisis facing the country s been brought home early in the life the new House of Commons. Export ices, though still rising in the third quarr of 1951, have on average shown much haller increases than increases in imports. d the deterioration in trade balance has en rapid compared with 1950. In the st nine months of 1951 imports were at 2,919.1 millions c.i.f., £925.5 millions ove the value of exports. The fact that e gap compares with a figure of only 348 millions for the whole of 1950 gives me measure of the adverse movement. ne country's gold reserves are being awn upon and the reserves are bound fall to danger point if the present dispency is not checked. "If we do not d a means to correct the disparity," d the Chancellor on November 6, "we all, in fact, be bankrupt, idle and ngry." The long-term solution—greater oductivity—cannot take effect at once. he unfortunate necessity of the moment to reduce imports, and the first stroke the Chancellor's axe has fallen on imrts entering the United Kingdom under en general licence in accordance with e Organisation for European Economic p-operation scheme for liberalising Euroan trade. For many commodities a lota system with individual licences was ntroduced on November 8 (see p. 641). nong the raw materials affected are all tural essential oils, though floral conetes and absolutes are unaffected.

Steps taken by the Chancellor to reduce inflation at home include an excess profits tax (in implementation of the Conservative election programme) to take effect on January 1, 1952. Dividend control is abandoned, though company directors are asked to be "very cautious" in distributing profits to shareholders. By the raising of the bank rate from 2 to 21 per cent., the "cheap money" policy pursued for the past twenty years is reversed. No new factory building will be allowed to start during the next three months, and investment in plant, etc., will be reviewed in the light of steel industry capacity and the need to export more capital goods. In the health field it hardly seems likely that the National Health Service will escape "economies" promised in administration, and the difficulties likely to be encountered in the chemical and allied industries are likely to be a reflection, and perhaps a concentration, of those facing the country as a whole, apart from any impetus given by the rearmament programme. The focus must be everywhere on economies and ingenuities to wring maximum cutput from restricted resources,

World Pharmacopæia a Reality

THE publication of the first edition of the first volume of the Pharmacopæa Internationalis marks an epoch in the history of pharmacy and medicine. It is difficult to praise too highly the pioneers who have shown such patience, industry and skill in sifting and collating pharmaceutical information from many national sources, and in reaching agreement upon standards. Attempts to produce an international pharmacopæia date back to the end of the nineteenth century. In 1902 a conference called by the Belgian Government, held in Brussels, was attended by representatives of nineteen countries. The first International Agreement for the Unification of the Formulæ of Potent Drugs was drawn up as a result, and ratified four years later. A second International Agreement, ratified in 1929, dealt with general principles for the preparation of galenicals, the standard dropper, biological tests of arsenobenzenes, nomenclature, and doses. In 1937 the Health Organisation of the League of

Nations set up a technical mission of pharmacopœial experts, and ten years later the Interim Commission of the World Health Organisation took over the work on pharmacopæias previously done by the League of Nations, Compilation of the Pharmacopæa Internationalis has been the work of the Organisation's Expert Committee on the Unification of Pharmacopœias.

British pharmacists will not be at a loss in finding their way about the Pharmacopæa Internationalis, since it has a close resemblance in format to the British Pharmacopæia. The matter is clearly laid out, with economy of statement, and the compilers' meticulous attention to accuracy is exemplified in the inclusion of definitions for "about" and "negligible." Economy of statement is well shown in the five paragraphs explaining the method of expressing the estimates of errors in biological assays. The Organisation hopes that countries that have not yet a national Pharmacopæia will decide to adopt the Pharmacopæa Internationalis as a whole, with the addition, perhaps, of a supplement prepared to provide for national requirements.

Sulphur Prospects

WORLD production of sulphur is expected by the sulphur committee of the International Materials Conference to fall short of requirements by 1,271,900 tons in 1951 and 1,340,700 tons in 1952. Figures released by the committee show, for the first time, the total free-world production and consumption of sulphur in the period 1948-49-50, and the estimated requirements for 1951-52, compilations made possible from replies to questionnaires previously sent out to all interested governments in connection with sulphur allocations for the third and fourth quarters of 1951 (C. & D., October 27, p. 542). The 1951 world requirements of sulphur, crude and refined, are estimated at approximately 7,134,200 tons, and the 1952 requirements at 7,596,300 tons.

The demand for sulphur increased by 32 per cent. in 1951, and by 1952 the increase will be 40 per cent., as a result of expansion in the uses of sulphuric acid, sulphur dioxide and carbon bisulphide in

agriculture and other industries. A breakdown of the demand by tonnages indicates the predominance of sulphuric acid as a consumer of sulphur (just over 60 per cent. of the use of the element).

The amount of acid (100 per cent.) used by the United Kingdom for the manufacture of drugs and chemicals during the period July 1 to September 30, was 3,249 tons.

World requirements of pyrites this year total approximately 4,451,400 tons, against an expected production of 4,395,300 tons. In 1952 the requirements are estimated at 5,000,300 tons and production at 4,745,500 Total free-world production and consumption of sulphur and sulphur-containing raw materials from all sources in terms of sulphur content for the years 1948-50, and estimates for the years 1951 and 1952, are shown in the following table:-

SULPHUR AND SULPHUR-CONTAINING MATERIALS

Year				World Total (1,000 tons)		
				Production	Consump- tion	
1948				9,746.4	9,736.6	
1949	•••			10,201.4	10,077.2	
1950				11,242.9	11,527.8	
1951	(estimated)			11,523.4	12,975.3	
1952	(estimated)			12,367.5	14.119.5	

The statistics make apparent the seriousness of the sulphur shortage. The United States representative stated to the committee that the discovery of a new sulphur dome in the State of Louisiana (see C. & D., September 1, p. 295), does not relieve the pressure to conserve sulphur and to expand to the full all possible sources of production. It is anticipated that some of the output from the new Louisianz discovery, which is not expected to be in production until late in 1953, will be partially offset by an expected declining out puts in several mines now producing

The committee is encouraging all governments to increase production and urging them always to make the most economica use of all sulphur available to them.

FIRST INTERNATIONAL PHARMACOPŒIA

VOLUME 1 of the first International Pharnacopæia, just published by the World Health Organisation, resembles national harmacopecias in general form. The first art of its 406 pages comprises monographs f drugs and preparations (199 in num-er); the last 124 (9½ x 6 in.) pages conain forty-three appendices, in which regents, test solutions, biological assays, mit tests, etc., are described, and usual nd maximal doses for adults, etc., given. The volume concerns itself in the main vith drugs of long-established therapeutic nterest common to a number of national harmacopæias, but also includes new drugs hat seem to be accepted for future national harmacopæias. Monographs on injecions, sterility tests, the pyrogen test, cerain tinctures and tablets have been held ver for Volume 2, while, as it was not ossible to secure agreement on standards nd methods of control in time for the preent volume, many of the newer drugs, uch as antibiotics, will also be dealt with n the next.

nternational Language

Latin has been adopted as the interational language. The Organisation hopes hat the non-proprietary names chosen for ertain drugs will also be chosen by ational pharmacopæia commissions. Only he more important synonyms are menoned, but the Organisation proposes to sue from time to time lists of synonyms use in different countries. The botanial nomenclature accords with the Interational Rules of Botanical Nomenclature, 935, while for chemistry the system of the nternational Union of Chemistry has been ollowed. A system of designating sieves as been taken from reports of the Interational Organisation for Standardisation. English pharmacists will note a number f differences in names from those they re familiar with. For example, "to avoid onfusion" the term "liquor" is not used 1 the standard for medicinal solutions, the erm "solutio" being preferred. Alcoholic inctures are referred to as ethanolic tincures. Tinctures of potent drugs for which o proportion of active principles has been xed are uniformly 10 per cent. by weight. iquid extracts of similar types of drugs re prepared so that one part represents ne part by weight of the drug. Seven egrees of solubility are defined, and other efinitions include the term "negligible"

(a quantity not exceeding 0.0005 gm.). Under the heading "storage," three types of container and two types of protection from light (one being "special protection from light," in which the special precaution of covering the bottle with black paper must be taken) are described.

Under crude drugs the Pharmacopæia points out that the drugs must be free from—among other contaminants—sliminess, moulds and evidence of deterioration.

Assay Methods not Binding

While the methods of assay are the official methods on which the standards of the International Pharmacopæia depend, the analyst is not precluded from using an alternative method if he is satisfied that it will give the same results as the official one. The form of the monographs is, in general, as follows: Name of drug in Latin; if the drug is a substance of known chemical formula its graphic formula; empirical formula and molecular weight; description of the drug with statement of the pharmacopæial standard and limits of purity; followed by statements of solubility tests for identification; limit tests for impurities; and storage requirements, etc. With vegetable drugs the Latin name is followed by synonyms, if any; by a pharmacopæial statement of the standard and macroscopical and microscopical descriptions; by limit tests and assays, etc. Appendix 43, which includes a table of usual and maximal doses, states that when the dose prescribed exceeds the maximal dose, the prescription is not to be repeated by the pharmacist, and the physician should indicate this by writing the words "non-repetatur." The pharmacist may not dispense amounts in excess of the maximal dose without those explicit instructions from the physician who wrote the prescription; "at his discretion, he may refuse to supply them."

Copies of the International Pharmacopæia (Pharmacopæa Internationalis), Volume I, may be obtained from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price 35s.

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—British national prosperity depends upon waste paper. Over a million tons are required each year to meet the demands of the defence programme, the export drive and the home market.

A HUNDRED YEARS IN ONE FAMILY

The pharmaceutical business of William Blain & Sons, Ltd., Bolton

FEW proprietors of pharmacies today can claim that their business was a going concern and owned by a member of their family a century ago. That claim can be made by three of the directors of William Blain & Sons, Ltd., 25 Market Street, Bolton, Lancashire. The business from which that company developed was established in 1851 by Mr. William Blain, Ph.C. After his death in 1908 it was continued by his son, Mr. William Rushton Blain, Ph.C. who died in 1936. In 1936 a limited liability company was formed, the directors of which were Mrs. Alice Farnworth (grand-daughter of the founder),



An old drug jar still in the company's possession. Opposite: The shop front, a cosmetic showroom and the dispensary.

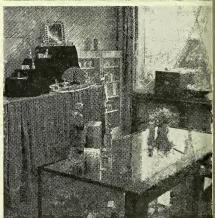
Mrs. Margaret Hope, M.P.S. (née Farnworth, great grand-daughter of the founder), Mr. Robert Farnworth and Mr. James Foster, M.P.S., Wigan (manager).

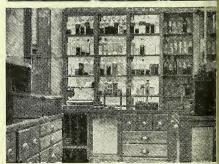
Although the business was established in 1851, it was in 1854 that Mr. William Blain moved into 25 Market Street. The shop was, before he took it over, occupied by a printer, and had several steps leading up to the front door. They were removed at a later

date. The two carboys seen in the illustration on this page are the original ones filled when the shop was opened. In Bridge Street, Bolton, was a spring of water which was not considered suitable for domestic use, but which was always clear and sparkling. Mr. Blain used this water, tinting it with chemical colours to fill his carboys. They have never been refilled.

Two sons, Alfred Lucas (the elder) and William Rushton, both of whom became pharmaceutical chemists, were taken into partnership with their father, but Mr. A. L. Blain, after staying for some years, joined the staff of the retail establishment of James Woolley, Sons & Co., Ltd., Manchester. Recently the dispensary has been







refitted, an aseptic laboratory, surgical fit ting rooms, a cosmetic and manicure de partment and an electric lift having beer installed. olton

MICROBIOLOGICAL TECHNIQUES—II

By Edward Gurr, F.L.S., F.R.I.C., F.R.M.S.

Continued from THE CHEMIST AND DRUGGIST, August 11, p. 191.

IN the present article the aim is to present, in limited space, a variety of techniques in a form that can be readily folowed at a glance in the laboratory, thereby bviating the inconvenience of searching hrough pages of theory and generalities.

Many other techniques relating to baceriology, protozoology, animal and plant histology as well as formulas of stains, fixaives and other data, will be found in the uthor's booklets (see previous article).

Staining of Mitochondria

Метнор No. 1

colutions required:

(a) Champy's fluid.

Potassium dichromate 3 per cent., 21 c.c. Chromium trioxide 1 per cent., 21 c.c. Osmic acid 2 per cent., 12 c.c.

(b) Pyroligneous acid, 20 c.c.

Chromium trioxide 1 per cent., 40 c.c.

Potassium dichromate 3 per cent.

(d) Acid fuchsin, 5 gm. Aniline water, 50 c.c.

Toluidine blue, 0.5 per cent. aqueous. Aurantia 0.5 per cent. in 70 per cent. (f) alcohol.

echnique:

1. Fix the tissue in Champy's fluid for twentyhours, then wash in running water for at east four hours.

2. Immerse in solution B for twelve to twenty jours, then wash in distilled water for half an

our. 3. Mordant in solution C for three days, then vash in running water for twenty-four hours.
4. Dehydrate and clear in the usual manner

nd embed in paraffin wax.

5. Cut sections from three to five *u* in thickness. 6. Take sections down to distilled water as sual; then stain them by flooding the slides with olution D and heating gently for six minutes o that vapour rises.

7. Pour off excess stain; rinse in distilled water; ounterstain in solution E (toluidine blue) for

bout two minutes.

8. Rinse in distilled water; then stain with the turantia solution for thirty to fifty seconds.

9. Differentiate with 95 per cent. alcohol; de-

ydrate; clear in xylol, and mount. Results: Mitochondria are stained red; nuclei blue; ackground yellow.

METHOD No. 2. olutions required:

(a) Altmann's fluid.

Potassium dichromate 5 per cent. aqueous, 20 C.C.

Osmic acid 2 per cent. aqueous, 20 c.c.

(b) Acid fuchsin, 10 gm. Aniline water, 50 c.c.

(c) Picric acid, saturated, in absolute alcohol.

Technique:

1. Fix small pieces of tissue not more than mm. in thickness for twenty-four hours in Altmann's fluid.

Wash for an hour in running water; then

dehydrate, clear, and embed in paraffin wax in the usual manner.

3. Bring sections, not more than 4 y in thickess, down to distilled water; then stain in the ness. acid fuchsin solution for six minutes.

Pour off excess stain; then blot sections carefully.

5. Differentiate and counterstain by flooding slides with the picric acid solution.

6. Rinse quickly in 95 per cent. alcohol; then dehydrate with absolute alcohol; clear in xylol, and mount in D.P.X.

Results: Mitochondria are stained crimson against a vivid yellow background.

Leprosy and T.B. Staining

Solutions required:

Carbol fuchsin (Ziehl Neelsen). (a)

(b)

Sulphuric acid 5 per cent. Hydrochloric acid, conc., 1 c.c. Alcohol 70 per cent., 99 c.c. Borrel's blue, 5 c.c.

Distilled water, 20 c.c.

Technique:

(a) FOR SMEARS.

1. Air-dried smears are fixed in absolute alcohol for three minutes; then drained and allowed to dry for a minute or so.

The preparation is placed on the corner of a tripod; the slide flooded with carbol fuchsin solution and warmed gently with a small bunsen flame until vapour rises, the stain being then allowed to act for five minutes.

3. Decolourise with the 5 per cent. sulphuric acid until only a faint pink coloration comes out.

4. Wash in 60 per cent. alcohol until no more colour comes out; then rinse in distilled water.
5. Counterstain in the diluted Borrel's blue (solution D, above) for half to one minute.
6. Pour off excess stain; rinse with distilled

water; drain and blot dry.

Dehydrate and differentiate the Borrel's blue 8. Clear in xylol and if it is desired to keep the preparations for any length of time without fading, mount in D.P.X.

Results: Leprosy or T.B. are stained bright red. Other bacteria are stained blue; while cells, cell debris and mucin in sputum appear in varying shades of blue.

(b) Sections.

1. Material should be fixed in saturated aqueous solution of mercuric chloride and embedded in paraffin wax.

2. Fix sections to slides and treat them for removal of mercuric precipitate. See "Microscopic Staining Techniques," No. 2 (E. Gurr, Ltd.,

3s. 6d.). 3. Immerse in carbol fuchsin solution in a staining jar for half to one hour in the incubator

at 37°C.

4. Decolourise in acid alcohol (solution C,

above).
5. Decolourise in 70 per cent. alcohol (neutral) for two to three minutes until the sections appear faintly pink to the naked eye.

6. Counterstain in Borrel's blue (solution D, as

above) for one to two minutes.
7. Rinse in distilled water; drain and carefully blot away excess water.

8. Dehydrate and differentiate the Borrel's blue, controlling by examination under the microscope, q. Clear in xylol; mount in xylol balsam.

Results: T.B. or leprosy, bright red. Other bacteria, blue. Cells and cell debris, varying shades of

blue. Cell nuclei, blue.

N.B.: If either of the following techniques is em-ployed for demonstrating leprosy, differentiation of the carbol fuchsin (stages 4 and 5) must be very carefully carried out, as the organism is more easily completely decolourised than T.B.

Negri Bodies

Solutions required:

(a) Basic fuchsin 0.5 per cent. in 20 per cent. alcohol, 100 c.c. Aniline oil, 1 c.c.

Phenol, I gm. (b) Methylene blue (Loeffler).

Technique:

- 1. Fix tissues in Zenker fluid for twenty-four hours; wash in runing water for four hours; then dehydrate; clear and embed in paraffin wax as usual.
- 2. Stain sections, four to five μ in thickness, from ten to thirty minutes in the basic fuchsin solution.

3. Wash with distilled water.4. Stain with methylene blue (Loeffler) for fifteen to sixty seconds.

Wash with water

Dehydrate and differentiate for a few seconds in absolute alcohol; then clear in xylol and mount. Results: Negri bodies are stained crimson against a blue background.

Nissl Bodies

Solutions required:

- (a) Carbol fuchsin (Ziehl Neelsen), 1 volume.
- Acetic acid 0.5 per cent. aqueous, 1 volume. Acetic acid 1 per cent. aqueous, 10 c.c. Formalin, o.1 c.c.

Technique: 1. Fix small pieces of tissue in 10 per cent. formalin or in 95 per cent. alcohol or in physiological saline for at least twenty-four hours; then wash, dehydrate, clear and embed in paraffin wax as usual.

2. Stain for three to five minutes sections in the diluted carbol fuchsin (solution A, above).

3. Wash quickly in distilled water; then destain

in solution B (above).

Wash in distilled water; dehydrate; clear in xylol, and mount.

Results: Nissl bodies and nucleoli are stained red, remainder unstained.

Elastic Fibres

Solutions required:

 (a) Aluminium chloride 2 per cent. aqueous.
 (b) Congo red 2 per cent. in distilled water, 100 C.C. Sodium citrate, 2.5 gm.

Glycerin, I c.c. (or 20 drops). Potassium iodide I per cent. aqueous. (c) (d) Aniline blue, water-soluble, 1.5 gm.

Orange G, 2.25 gm. Resorcinol, 3 gm.

Phosphomolybdic acid 1 per cent. aqueous, 100 C.C.

Technique: 1. Tissues should be fixed in 10 per cent. forma-lin, and frozen sections should be employed.

Wash sections in water: then immerse them in the aluminium chloride solution for ten minutes.

3. Wash with water and drain; then stain in the Congo red solution for ten minutes.

4. Wash with tap water; then plunge the slice into a jar of tap water and agitate there for te seconds.

Wash again with tap water; then stain for 5. five to ten minutes in aniline blue-orange G (solv

tion D, as above).

6. Rinse carefully in tap water; drain well ar blot carefully. 7. Dehydrate in absolute alcohol; clear in origi

num oil; wash in xylol and mount in xylol ba Results: Elastic fibres: bright red, Fibrin: dai

Treponema Pallida

Solutions required:

Giemsa stain, special.

Sodium carbonate, A.R. 1 per cent. i distilled water.

Technique:

blue.

1. Rub a lesion roughly until it bleeds, usin a swab that has been damped with absolute alco hol.

While the bleeding is taking place, swab th 2. chancre at intervals. After a few minutes a clea fluid exudate appears from the abraded surfaces.

3. Take a drop of the clear fluid exudate (fre

from blood) from the periphery of the lesion wit a platinum wire loop, transfer to a scrupulousl clean slide, and spread into a film.

Allow to dry in air; then fix in absolut

alcohol for fifteen minutes.

5. Pour off the excess alcohol, and allow th last traces to evaporate away in air.

6. Stain for fifteen to thirty minutes in a mix ture consisting of 10 c.c. distilled water buffered

to pH 7.2, and 0.5 c.c. Giemsa stain.

7. Rinse in running tap water for a few seconds, holding the slide with the film facin

downwards.

8. Blot dry and examine under the oil-immer sion objective.

Note: If it is desired to keep the preparation for any length of time without fading, it should be mounted with xylol balsam or D.P.X.

Results: The spirochaetes are stained reddish violet Nuclei of leucocytes, reddish purple; the rest of the leucocytes and the pus cells appear similar to Leishman- or Wright-stained preparations. Cyto plasm of plasmodia: blue. Chromatin: red. Erythrocytes: yellowish-pink.

Nadi Reaction (for oxidase granules)

Solutions required:

(a) ∝-Naphthol, extra pure, 1 gm.

aqueous potassium hydroxide solution drop by drop until the solution becomes yellowish-blue in colour and the x-naphthol is still not completely dissolved.

(b) Cold tap water, 100 c.c.

Dimethyl-p-phenylenediamine base, 0.5 gm. Note: This should be purchased in a sealed ampoule, and care should be taken to ensure that the material does not come in contact with the skin.

Pour the water into a clean amber bottle; break open the ampoule and tip the contents into the bottle. Replace the stopper and allow the bottle to stand, occasionally shaking, for twenty-four hours.

Note: This solution deteriorates after three or four

- weeks. Gram's iodine solution. (c)
- Carmalum (Mayer).

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well a

te (

1. Fix pieces of tissue up to 3 mm. in thickness

2. Cut frozen sections and collect them in dis-illed water.

3. Immerse in a freshly prepared and filtered olution consisting of equal volumes of solutions a) and (b) (as above).

4. When the sections turn blue, rinse them puickly in distilled water.

Immerse in Gram's iodine solution until the sections turn brown.

6. Transfer to distilled water, to which 2 drops of 0.5 per cent. aqueous lithium carbonate per 1000 c.c. of distilled water have been added, and allow to remain for fifteen minutes to twenty-four hours until the sections have regained their blue

7. Wash in distilled water; then counterstain in

carmalum for two to five minutes.

8. Mount in glycerin jelly or Apathy's medium. Results: Oxidase granules are stained blue, while nuclei are pink. It should be noted that fat is sometimes stained.

CORRESPONDENCE

Contraceptives in Pharmacies

SIR,-The manner in which contraceptives may be sold appears to be exercising the minds of the Council of the Society, but we feel that further facts are called for if members of the Society are to discuss the matter to advantage and approve or veto the Council's recent action. In the statement issued in July (C. & D., July 21, p.65) for the guidance of pharmacists, inadequate explanation was in our view given of the need for further action. The Council stated that it had recently reviewed the situation and regretted to note an increasing tendency to draw attention in one way or another to the sale of con-traceptives. In what way was the situation reviewed? Did the survey cover the whole country, and was it promoted because of complaints from members of the public? If so, how many such complaints were received and over what period of time? Has the Council considered any expert technical evidence such as could be produced by the manufacturers and distributors of contraceptives or of such bodies as the Marriage Guidance Council and the Family Planning Association? We ourselves have refrained from commenting on the Council's statement because we do not wish to be accused of any partisan interest, but we may mention that we have produced no show material for many years, relying principally on medical recom-mendation for sales. On the question of indicating to the public that contraceptives may be bought at a particular pharmacy without embarrassment, fear of refusal, or actual rudeness, then our own experience is that some indication can be of considerable help to people who wish to obtain their personal requirements of this type from a legitimate source such as the chemist. It is perhaps not known to the majority of members of the Society that Clause 11 of the statement (that "Contraceptive preparations and appliances or other illustrations should not be exhibited ") has referred up to now to the articles themselves, and not to the package or carton, which could be exhibited and would, we feel sure, when discreetly displayed in a surgical window, create no offence in the minds of the majority of customers. Our opinion is that less prominence is given today to the display of contraceptives than before the war. We therefore question the need for further regimentation of the pharmacist.

C. A. BARNES, M.P.S., M.S.M.A., Sales Director, Prentif. Ltd.

London, W.C.2.

A Disclaimer

SIR,-I am informed that I have been reported in your journal as having said that a confrere in his hospital dispensed 15,000 recipes at a cost of £12,000 and that these would cost £19,000 if done in retail businesses. have not seen a copy of the C. & D. but would like to point out that if this is as reported, then a mistake has been made. The correct figure was 120,000 recipes.

Lewisham Hospital. J. PIRNIE.

A PHARMACIST'S ANTHOLOGY

ALL that Sugg's Soothine, highly recommended by the local chemist, could do was being done . . . Of Sugg, the curative unguent King, one can speak with assurance. When it came to assembling curative unguent, he was there forty ways from the jack. As Veronica Wedge stood gazing at Tipton Plimsoll, with her enormous eyes like a cow staring over a hedge at a mangel-wurzel, no one could have guessed that a few brief hours previously the nose beneath those eyes had been a size and shape that made her look like W. C. Fields's sister. Sugg had taken it in hand, and with his magic art rendered it once more a thing of perfection.—From "Full Moon," by P. G. Wodehouse.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescrip tion. Editorial recommendation is not implied. Reprints obtainable on application

MIXOGEN

Manufacturer: Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

DESCRIPTION: Tablets, containing ethinyl œstradiol, 0.0044 mgm.; and methyltesterone 3.6 mgm. Indications: Climacteric (male or female) and menstrual disorders, etc. Dosage: 1-2 tablets daily, normally.

How PACKED: Tubes of twenty-five; bottles of 100, 250, 500 and 1,000 tablets.

FENOX NASAL DROPS

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION AND FORMULA: A nasal-drop solution containing phenylephrine hydrochloride, 0.25; naphazoline nitrate, 0.025; chlorbutol, 0.5; vehicle, to 100.0

INDICATIONS: Nasal congestion in common cold, hay-fever, vasomotor rhinitis, sinusiti and other catarrhal conditions of the upper respiratory tract.

Dosage: Adults: Four to five drops instilled into each nostril. Children, five to twelve years: two drops similarly.

How Supplied: In \frac{1}{2}-fl. oz. bottle with dropper.

RO-A-VIT

Manufacturers: Roche Products, Ltd., Welwyn Garden City, Herts.

Description: Synthetic vitamin A (axerophthol).

Indications: Prophylaxis and treatment of vitamin A deficiency.

Dose: For treatment of mild conditions, one or two tablets (see below) daily. Intensive treatment, two tablets 2-3 times daily.

H₂C -CH = CH--C = CH--CH = CH--CH--CH--OF -CH a ćнз ĊНа Axerophthol

How Supplied: As sugar-coated tablets each containing 50,000 international univitamin A (approximately 17 mgm. vitamin A acetate), in bottles of thirty and 20 tablets.

AVOMINE

Manufacturer: May & Baker, Ltd., Dagenham, Essex.

Description: Promethazine-8-chlorotheophyllinate.

Indications: Travel sickness and in the symptomatic treatment of nausea and vomiting in other conditions.

Dosage: Travel sickness:-Prevention: long journeys, one tablet (see below) each night at bedtime (com-

CH₃N-CH. N(CH3)2. CH3N

Avomine

mencing night before travelling); Short journeys, one tablet 1-2 hours before the journey. Treatment: One tablet followed by second tablet the same evening and a third on the following evening. Other nausea and vomiting: Up to one tablet six-hourly

How Supplied: In tins of ten tablets each containing 25 mgm.

NEOPHRYN is the correct name of the preparation of Bayer Products, Ltd Africa House, Kingsway, London, W.C.2, described in this feature in the C. & D. October 13, p. 503. The name in this paragraph may be pasted over that given in the reprints.

1951

s, etc

C.& D. REFRESHER COURSE for Pharmacists

Compiled by
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Assisted by
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No. 3—EMULSIONS AND EMULSIFYING AGENTS

"Like kindred drops, been mingled into one"—THE TIMEPIECE

SINCE the time of Galen, or perhaps even earlier, emulsions have provided pharmaceutical interest. Many theories have been advanced to account for emulsification but the phenomenon is still not

fully understood.

An emulsion is a system of two immiscible liquids in which one liquid is dispersed throughout the other in the form of small globules, the permanence of the system being assured by the presence of a third substance—the emulsifying agent. It is evident that two kinds of emulsion are possible with any two immiscible liquids x and y — one in which liquid x is dispersed in liquid y, and one in which y is dispersed in x. The type is determined by the nature of the emulsifying agent used. The liquid scattered in dispersed globules is called the disperse or internal phase; the other, the continuous or external phase.

The first important advance in knowledge of emulsification was the demonstration that the emulsification of two liquids was easy if the interfacial tension between the liquids was low, and difficult when the tension was high. Emulsifying agents lower the interfacial tension—by being adsorbed at the surface where the liquids are in contact. This knowledge led to the idea that a film of emulsifying agent was formed at this surface and that each globule of disperse phase was surrounded by a protective layer of considerable mechanical strength which prevented adjacent globules from coalescing. Further advances resulted from increasing knowledge of the properties of emulsifying agents. These substances have characteristic molecular properties. To study emulsification a distinction must be made betwen symmetrical

and asymmetrical molecules. (Methane, ethane and benzene are examples of symmetrical molecules; ethyl alcohol, acetic acid and water are examples of asymmetrical molecules, as shown below.)

The electrical charges associated with symmetrical molecules are balanced and the molecule may be regarded as electrically neutral. With asymmetrical molecules the charges are not balanced way. Symmetrical molecules are spoken of as being non-polar, asymmetrical as being polar. Polar substances are soluble in water and insoluble in oils and certain organic solvents, while non-polar substances are insoluble in water but soluble in oils and some organic solvents. In other words polar substances are soluble in polar liquids and not in non-polar liquids; conversely non-polar substances are soluble in non-polar liquids and not in polar liquids. Polar substances are described as hydrophilic (water loving) and non-polar substances as hydrophobic (water hating).

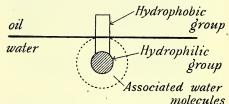
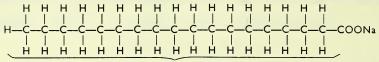


Diagram of molecule of emulsifying agent at oilwater interface.

Some polar molecules, however, have a large non-polar group and therefore possess both hydrophilic and hydrophobic properties. Emulsifying agents belong to this class of substance and therefore are attracted to both polar and non-polar sol-

vents. Such molecules adsorbed at the liquid/liquid interface become arranged or oriented with the hydrophilic end towards the water and the hydrophobic end towards the oil. Sodium stearate (see formula below) is such a substance.

for the "polar end" of the molecule thave associated with it a number of molecules of water forming a voluminothydrate. This end, therefore, is likely the much more bulky than the other enand the molecule may be regarded a



(Long hydrophobic group)
Sodium stearate

Not all such molecules are emulsifying agents because there must be a satisfactory balance between hydrophilic and hydrophobic properties. If the hydrophilic properties are too great the substance is too water-soluble and will not be adsorbed at the surface. Similarly the substance must not be too hydrophobic. Emulsifying agents generally have a somewhat greater affinity for one of the liquids and it is found that that liquid constitutes the continuous phase.

Properties Summarised

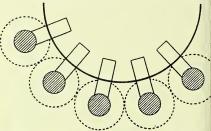
The properties of emulsifying agents may be summarised as follows:

- 1. They reduce interfacial tension between immiscible liquids.
- 2. They form a film at the interface.
- 3. The molecule contains a large hydrophobic group, commonly a long chain.
- 4. The molecule has both hydrophilic and hydrophobic properties.
- 5. The opposite properties are partly balanced, usually one being slightly dominant.
- 6. The molecule is oriented in characteristic fashion at the interface.

Emulsion type

The above theory is sometimes described as the oriented adsorption theory, and it can be used to explain why a certain emulsifying agent promotes a particular type of emulsion. For example, with an emulsifying agent which is more hydrophilic than hydrophobic there is a tendency

wedge- or cone-shaped. With close packir of such molecules at the interface it reasonable to assume that a curvatur would result such as that illustrated the diagram below. It is obviou

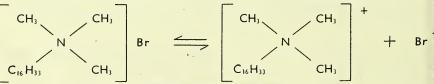


Curvature of interface due to close packing emulsifying agent molecules.

that this tendency favours the formation coil rather than water globules and an oi in-water emulsion would result. A similar argument is used to explain water-incemulsions.

Although possessing similar physical properties emulsifying agents are of wide different chemical composition. The modern system of classification group them as non-ionic, anionic and cationi. The term non-ionic refers to those which do not dissociate in solution but the other terms require some explanation. Consider the structure of the two following emuls fying agents and the ions into which the dissociate.

 $C_{17}H_{35}.COONa \leftarrow C_{17}H_{35}.COO - + Na + Sodium stearate$



Cetyl-trimethyl-ammonium bromide

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A characteristic long hydrocarbon chain, hich confers emulsifying properties on ne molecule is, in sodium stearate, in the nion, and this substance is therefore her to boken of as anionic or anion active. In tyl-trimethyl-ammonium bromide (CTAB) ne characteristic group (cetyl) is in the ation, hence it is described as cationic.

Von-ionic Emulsifying Agents

Common examples of non-ionic emulsiying agents are esters of fatty acids with welve to eighteen carbon atoms in the hain, and alcohols having satisfactory ydrophilic properties. The general formla for these is RCOOR', where R repreents the fatty acid chain and R' represents he alcohol. Numerous examples have been leveloped in recent years, some promoting il-in-water, and others water-in-oil emulions. The type of emulsion formed deends on the balance of hydrophilic and hydrophobic properties. Glyceryl monotearate is an example in which the hydrophilic effect is weak and which therefore promotes water-in-oil emulsions.

> CH2.OOC.C17H35 CH.OH CH₂.OH Glyceryl monostearate

Propylene glycol mono-oleate has strong hydroph lic properties and promotes oil-inwater emulsions.

C₁₇H₃₃.COO.CH₂.CH(OH).CH₃ Propylene glycol mono-oleate

An increase in the number of hydroxy increases the hydrophilic properties. On this basis many compounds have been developed as emulsifying agents. (OH) and oxythylene (-OCH2CH2) groups these are marketed under the name of Crills.

Anionic Emulsifying Agents

Anionic emulsifying agents include the soaps, which are salts formed by combination of certain higher fatty acids with alkali and other metals. Alkali soaps promote oil-in-water emulsions, while zinc, calcium and magnesium soaps form waterin-oil emulsions. The so-called organic soaps such as triethanolamine stearate also belong to the anionic group and have been used fairly widely.

Certain organic sulphates are of great importance to pharmacists. To this group

belong, for example, emulsifying wax and sodium lauryl sulphate. Lanette wax SX is a mixture of cetyl and stearyl alcohols which have been sulphated to the extent of about 10 per cent. Sulphonated compounds have also been used with success but to a lesser extent pharmaceutically than the sulphates. Sulphates are sometimes erroneously described as "sulphonated" e.g., "sulphonated castor oil" (which is a sulphated compound). Chemically the difference between them is that, in the sulphonate, carbon is directly linked to sulphur, whereas in the sulphate the linkage is through oxygen.

Cationic Emulsifying Agents

Cetyl - trimethyl - ammonium bromide (see p. 666) is the commonest example of the cationic group of emulsifying agents. Compounds in this group contain a pentavalent nitrogen atom, and many are quaternary ammonium compounds like CTAB. They are bactericides and are used as such more than as emulsifying agents.

Many natural colloids, familiar in use to pharmacists and often difficult to classify, are also used as emulsifying agents. They include various gums and mucilages such as acacia, tragacanth and Irish moss, certain proteins such as casein and gelatin, waxes such as wool fat and beeswax, and solid substances such as bentonite.

SUGGESTIONS FOR FURTHER READING

Pharmaceutical Emulsions and Emulsifying Agents, L. M. Spalton. (The Chemist and Druggist). Emulsions and their Technical Treatment, W. Clayton. (J. & A. Churchill, Ltd.). Introduction to Emulsions, G. M. Sutheim. (Chemical Publishing Co. Inc.).

REVISION QUESTIONS

1. What is meant by the terms "anionic" and "cationic" as applied to emulsifying agents?

2. What are the essential properties which characterise emulsifying agents? (Answers on p. 672)

Social Service Guide .- A 40-p. booklet, "Social Service Problems," published by the Conservative and Unionist Central Office, Abbey House, Victoria Street, London, S.W.1, price 1s. 3d., sets out for the small trader, the old-age pensioner, the man-in-the-street and Members of Parliament (" of all parties"), information on rents, appliances for the deaf, war pensions, small businesses, family allowances, etc., including the addresses of organisations.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quanti ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grade

London, November 14
An increase in the price of Phenylacetic ACID was the only price change in the Pharmaceutical and Fine Chemicals market recorded during the week. Business was reported to be on the same level as previously, with shortages of certain commodities again in evidence.

Though a little more business was done in CRUDE DRUGS, the volume was still below average for the time of year. Anti-MONY METAL was reduced by \$25 per ton on November 12—the first price change since April and one that is understood to reflect a recent reduction in the American price of ore. A few importers report shortages of some commodities, particularly of Indian origin, as the result of a hold-up in transport. Cargoes due to be unloaded at Tilbury recently were left on board because of a labour dispute, and have been taken over to the Continent for trans-shipping into smaller craft so that the goods may be discharged higher up the Thames. An announcement by the Government that a wide range of imported food items, including HONEY, were to be subject to import licences (see p. 641) caused a run on spot supplies of Argentine honey.

Also removed from the list of goods that may be imported under open general licence are all natural ESSENTIAL OILS (except those from scheduled territories). The announcement caused considerable gloom and some vexation in the marketgloom at the prospect of returning to the war-time procedures of form filling and vexation that a group of commodities of such importance to exports should be among the first to be cut. Importers feel that the decision is a legacy from the war years, when essential oils were controlled by the Ministry of Food. The Board of Trade, they think, in an effort to clamp down on "luxury" foods, have treated essential on Huxury foods, have treated essential oils as one of them. It certainly seems incongruous that floral concretes and absolutes should not be affected. Stocks of many oils on the spot are at a low level by reason of the high prices that have been asked abroad. With a time lag until the new licences are issued, there may be shortages, therefore, in a few commodities. The size of the quota is not known, but it seems that it is to be based on the value of individual imports during the period January-June 30. In normal times, buying is largely done in the autumn, when new-crop materials are available. This, coupled with the fact that there was little buying done during the first six months of 1951 owing to heavy purchases after the outbreak of the Korean war, makes the basic period for quota an un-

fortunate one for many importers. A man ket that has for several months been almos stagnant, has thus received a fillip, how ever unpleasant the cause. Chinese (an even Brazilian) Peppermint, Spearmin and Orange have geen in great demand but Lemon and Caraway remain dull Holders are in the main supplying norma quantities of oils to their regular custo mers at the market prices rating befor the announcement and have stated their intention of continuing to do so whils their stocks last. OLIVE and ALMOND oil are amougst the vegetable oils now re quiring import licences. A little more in quiry has been reported for OLIVE durin; the past week, but most forward order that have been placed were for new-crop oil, which is shipped after December 1 Licences are expected to be in the hand of importers before then, and no hold-up is anticipated.

U.S. Drug and Chemical Report New York, November &

The easier supply situation of Oxalic acid have permitted producers to reduce prices to 15.9 cents per lb., but stocks of Carbon tetrachloride are short and the stocks of the contract of the price has advanced to 8.6 cents per lb for the technical material in bulk delivfor the technical material in bulk deliveries. The Crupe Drugs market remains quiet. Stocks on the spot have been allowed to shrink partly by reason of the high prices quoted on replacements. Told BALSAM is quoted at \$5.70 per lb. (10 cents down), while BUCHU leaves are firmed to the property of the property of the property. A furat 45 cents per lb. (up 5 cents). A fur-ther decline has been noted in Brazilian Menthol, with fair-sized quantities offered at \$9.50 per lb. Japanese material is being held at a premium over the Brazilian article, but little activity has been noted. The limited demand for QUICKSILVER is reflected in a generally strong tone; a tight supply situation in the spot metal has resulted from a New York dock strike. The ESSENTIAL OILS market has been featured by sharp reductions in the price of some oils, Patchoull, Dalmatian Sage, Lemongrass, Lavender (spike) and Euca-LYPTUS all show reductions.

Pharmaceutical Chemicals

Acetanilide.—1-cwt. lots are 2s. 11d. per lb. for crystals and 3s. per lb. for powder.

ACETONE.—Prices for under 1-ton lots are from 110s, per cwt.

AMPHETAMINE,—Base is from 65s. to 68s., and Sulphate from 56s. to 59s. per lb., as to quantity. d-Amphetamine is from 650s, to 700s, per kilo.

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ATROPINE. — Rates per oz. are now: LKALOID, 58s. 9d.; 4-oz., 58s. 3d.; 25-oz., 7s. 9d. SULPHATE, 48s. 9d.; 4-oz., 48s. 3d.; 5-oz., 47s. 9d. METHYL NITRATE in 4-oz. ots is 78s. 6d. and METHYL BROMIDE, ots 6s. 6d. per oz.

BARBITONE.—Current rates per lb. are: -cwt. lots, 39s.; 28-lb., 40s.; 7-lb., 41s. The SODIUM derivative is 1s. per lb. more

han the base.

Barium sulphate.—1-cwt. lots of B.P. x-ray) are 1s. 5d. per lb. Scheduled ates per lb. (containers in brackets) for uantities between 28-lb. and 1-cwt. are as ollows:—1s. Sd. (28-lb.); 1s. 9d. (14-lb.); s. $9\frac{1}{2}$ d. (7-lb.); 2s. (1-lb.).

Benzoic acid.—1-cwt. lots are 3s. 01d. per lb. The Sodium salt is 2s. 101d. ber lb. in 1-cwt. lots.

BISMUTH SALTS .- The following are the prices (per lb.) in largest bulk packages:--

		ı-cwt.	28-lb.	7-lb.	
		ś d.	s. d.	. s. d.	
CARBONATE		34 4	34 7	30 I	
ALICYLATE		27 II	28 2	31 101	
UBGALLATE		27 10	28 I	31 91	
UBNITRATE		29 11	30 2	34 I ½	

Boric acid.—Prices for B.P. grade in uantities of 1 ton and upwards are as follows:—Granular, £81; crystal, £88; bowder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain, Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.: 1 cwt., 5s.

Carbon tetrachloride.—In 1-2 carboy lots, B.P. grade is £115 per ton. TECHNI-CAL, in 40-gall. drums, in less than 1-ton ots. is £66 per ton; 1 ton and under 2 tons, £64 10s.; 2 tons and under 4 tons, £64; 4 tons and upwards, £63.

Chlorocresol.—Pharmaceutical quality

CHOLESTEROL, — In 1-kilo lots. pure is about 142s.; 10-kilo, 133s. per kilo.

is about 142s.; 10-ki metal Chrysarobin.— Strik 35s. to 35s. 9d. per lb. Chrysarobin. — Quotations are from

CINCHOPHEN.—1-cwt. lots are quoted at 24s. 9d. per lb., with smaller quantities up to 27s. 9d. per lb.

COCAINE. — Rates per oz. are as follows: Alkaloid and Salicylate, bottles 4-0z., 27s. each: ½-oz., 53s. each; 1-oz., 104s.: 4-oz., 103s.; 8-oz., 102s.; 16-oz., 101s.: tins, 25-oz., 100s. Hydrochloride and Nutrate boutles here 24s 6d og. and Nitrate, bottles, 1-oz., 24s. 6d. ea.; 1-oz., 48s. ea.; 1-oz., 94s.; 4-oz., 93s. 3d.; 8-oz., 92s. 3d.; 16-oz., 91s. 6d.; tins, 25-oz.. 90s. 6d.

Cyclobarbitone. — Base and Calcium DERIVATIVES in 1-cwt. lots are 75s. per lb.: small lots from 79s. 6d. to 77s. 3d. per lb.

ETHER. — Prices of TECHNICAL, B.S.S., and Solvent, B.P., in winchesters are and Solvent, B.F., in whichesters are (per lb.) as follows:—10-cwt. lots, 2s. $5\frac{1}{2}$ d.; 5-cwt., 2s. $6\frac{1}{2}$ d.; 48-lb., 2s. $7\frac{1}{2}$ d.; 24-lb., 2s. 9d. Rates for Anæsthetic, B.P., in winchesters are:—10-cwt. lots, 3s. 9½d.; 5-cwt., 3s. 10½d.; 1-cwt., 3s. 11½d.; 72-lb., 4s. 0½d.; 36-lb., 4s. 2½d.; 24-lb., 4s. 4½d. In 1-lb. bottles, prices are 2½d.; in ½-lb. bottles, 7½d.; and in ½-lb. bottles, 1s. 4½d. per lb. more than the above prices. drums, prices are 11d. per lb. less than corresponding winchester prices. tainers are charged and are returnable.

LIQUID PARAFFIN. — Price to wholesale distributors for Heavy, B.P., is £102 7s. 6d. per ton (8s. 1d. per gall.). LIGHT, B.P., is £83 7s. 6d. per ton (6s. 5d. per gall.) in 40/45 gall. returnable loaned drums, delivered in the U.K. Soft paraffin: White is £99 9s. or £97 5s. per ton as to grade and Yellow, £75 1s., all in non-returnable in minimum ton lots, ex works.

PHENYLACETIC ACID.—Advanced. In 1ton lots the price is now 5s. 6d. per lb.: 1-ewt.. 6s. per lb. Perfumery grade, re-crystallised is from 8s. 6d. to 11s. 6d. per lb., as to quantity.

Potassium permanganate. — In 1-cwt. lots B.P. is 1s. 7¹/₂d, per lb. and technical grade, 172s, per cwt.

Sodium sulphite. — Prices are as follows:—ANHYDROUS powder, in 4-ton lots, £57 2s. 6d. per ton, packed in 1-cwt. free drums. Pea Crystals (Photographic), in 4-ton lots, £36 7s. 6d. per ton in free kegs or £28 2s. 6d. per ton in 1-cwt. bags. Surcharges: 2 tons, 10s.; 1 ton, £1; 10 cwt. £2: 5 cwt., £3; 1 cwt., £6 more than above rates.

SODIUM THIOSULPHATE. — In 4-ton lots. packed in non-returnable kegs, £38 per ton; in bags, £30 15s. per ton.

STRYCHNINE.—Scarce. Current rates per oz. are given in the following table:-

Compound	Under	25 OZ 99 OZ.	100 OZ 499 OZ	500 oz. and over
ALKALOID, B.P.C.	s. d.	s. d.	s. d.	s. d.
BISULPHATE	7 4	7 2	7 0½	6 11
Hydrochloride,	6 2	6 0	5 10½	5 9
B.P		6 9	6 7½	6 6
NITRATE, B.P.C		6 9	6 7½	6 6
PHOSPHATE		7 10	7 8½	7 7
SULPHATE, B.P.C.		6 3	6 1½	6 0

Special discounts for large buyers.

TANNIC ACID. — Home-trade rate for Levis, B.P. (ex ether) in 1-cwt, lots is 8s, per lb.; B.P. powder is quoted at 8s, 3d, per lb, for the same quantity.

Terpineol,—Prices of B.P. grade are from 4s. per lb. upwards as to quantity.

Crude Drugs

Aconite.—Spanish napellus is 3s. 6d. per lb., duty paid, ex wharf.

AGAR.—Steady. Kobé No. 1 on the spot is quoted at 8s. 6d. per lb., duty paid.

Aloes.—Prime Cape on the spot is 230s, per cwt.; forward offers are quoted at about 207s. 6d., c.i.f., for prompt shipment.

Antimony. — English, 99.6 per cent., £377 10s.; 99 per cent., £365 per ton.

Areca Nuts.—Spot quotations are 40s. per cwt. for Ceylon.

Balsams.—Canada is offered at from 28s. to 30s, per lb. on the spot, according to holder. Maranham Copaiba, on the spot is 17s. 6d. per lb., duty paid; insoluble, 10s., c.i.f. Peru is 18s. 3d. per lb., duty paid, and 15s., c.i.f., for shipment. Tolu on the spot is about 41s, per lb. for the natural and 32s. 6d. for B.P. quality.

Belladonna.—Root is from 3s. 3d. to 4s. 4d. per lb., on the spot, duty paid, according to test. Leaves (0.65 per cent. test) are 5s. per lb.

BENZOIN.—Firm. No. 1 Sumatra block on the spot is quoted at from £28 10s, per cwt.; for shipment, £25 15s., c.i.f. Siam almonds (medium bold) are 37s. 6d, per lb.,

BISMUTH. — In minimum 5-cwt. lots METAL is 28s, per lb.

Buchu.—Short round leaves on the spot are offered at 2s, per lb.

Cassia Bark. — Whole, for November shipment is 120s. per cwt., c.i.f.; in bond,

Chamomile flowers. — New-crop Belgian (best quality) is about 5s. 2d. per lb. (standard), 4s. 4½d., on the spot. Forward prices quoted are: best quality, 4s. 0½d, per lb.; old crop, 3s. 9¼d., both c.i.f.

Cherry bark.—Thin cut natural is quoted at 2s. 1d. and rossed at 2s. 8d. per lb., duty paid, ex warehouse London.

CINCHONA. — Succirubra chips of East and West African origin testing over 6 per cent, are quoted at 1s, 9d, per lb.

CLOVES.—Firm. Zanzibar on spot, quoted at 4s, 10½d, per lb.; for prompt shipment, 4s, 10d., c.i.f.

COLCHICUM.—Quiet. Corms on spot are offering at from 2s. 3d. to 3s. 6d. per lb.; seeds: forward offers at 6s. per lb., duty paid.

Colocynth.—Pulp on the spot is from 1s. 9d. to 1s. 10d. per lb., duty paid.

Ergor.—Unsteady. Forward business in Portuguese is reported at 55s. per lb., c.i.f. Spot supplies are about 63s. per lb.

Galangal root. — Forward quotations are about 87s. 6d. per cwt., c.i.f., for November shipment. On the spot, 107s. 6d. is asked.

Honey.—Firm. Australian supplies manufacturing material are scarce on t spot; price is 95s, per cwt. in 60-lb, ti Jamaican is offered at around 104s, p cwt. in 3-cwt. barrels.

IPECACUANHA.—Unchanged. Forward fers of Columbian vary between 55s. a 56s. 6d. per lb., and Nicaraguan betwee 58s. 6d. and 60s., both c.i.f., Novemb December shipment. Columbian on the si is 59s. per lb.

KARAYA.—Superior No. 1 gum on t spot is about 400s. per cwt.; No. 2, 30

Kola nuts.—African halves on the sign London are from $4\frac{3}{4}d$, per lb.; to conforward, $4\frac{1}{4}d$. e.i.f.

MALE FERN.—Jugo-Slavian on the sp is 55s. per cwt.; for shipment, 47s. 6 c.i.f.

Menthol.—Firmer. Chinese is 83s. 1 lb., duty paid, and 78s. 6d. in bond. Sy thetic detached crystals, 60s. per lb. i 60-lb. case lots.

PODOPHYLLUM.—Emodi on the spot 375s, per cwt, and for November-December shipment, 320s., c.i.f.

SARSAPARILLA. — Jamaican native 1 is 2s. 7d. on the spot and for shipme 2s. $3\frac{1}{2}$ d., c.i.f.

SCAMMONY.—Forward quotations of reare $10\frac{1}{2}$ d. per lb., c.i.f.

SEEDS.—ANISE.—Market quiet. Cypn is 160s. per cwt.; Turkish, 150s. per cw in bond, and 160s., duty paid, all sq London. CARAWAY.—Dutch is offered from 127s. 6d. to 130s. per cwt., du paid, London. CELERY.—Indian continu quiet with sellers quoting 1s. 10\frac{1}{2}d. pl., spot London. Corlander. — Marlfirm and rising. Owing to shipment prical data of the spot price has also advanced to 92s. 6d. per cwt., c.if. 1 Morocco the spot price has also advanced for the spot spot for the lond for the spot for the spot for the lond for the lond market. Spot: Cyprus, 225s. per cwt. a few inquiries received on the London market. Spot: Cyprus, 225s. per cwt. Indian, 220s.; Morocco, 23 per cwt., duty paid. Shipment: Cypr 195s. per cwt.; Indian, 192s. 6d.; Mal 200s.; Morocco, 187s. 6d., all c.i.f. London Dill.—Indian in poor demand with 8 per cwt. quoted, spot London. Fennel. Owing to the price for shipment havirisen to over 200s. per cwt., c.i.f., selled spot parcels have withdrawn from the market. Fenugreek.—Morocco, spot Lodon or Liverpool quoted at 47s. 6d., cwt., duty paid. Mustard.—English owito the weather conditions is dearer. 9t to 110s. per cwt. quoted, according quality.

SENEGA. — Prices for shipment a 16s. 3d. per lb., c.i.f.; spot supplies a offered at 16s. 6d. per lb. upplies rce on 30-lb, 11 104s,

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83s, p ond, 8s r lb, f

spot

Dece**m**t

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paid

tenna.—Tinnevelly leaves are offered from igin as follows:—Prime No. 1, 1s. 4d. r lb.; No. 2, 1s. 1d.; No. 3, 11d.; f.a.q. 2, 2, 11½d.; No. 3, 9½d.; ungraded aned No. 4, 6½d., all c.if. London, ovember shipment from India. Tinnevelly ds are from 2s. 2d. to 3s. 1d. per lb. to quality.

SHELLAC.—Quiet. Spot quotations are:
O.T.N., pure, 365s.; F.O. Standard 1,
5s., and fine orange, 395s. to 455s. per
1 of v., ex-London warehouse.
SQUILL. — Italian white new-crop is
they fered from origin at 57s. 6d. per cwt.,
i. to contain the standard s

VALERIAN.—Whole Belgian on the spot quoted at 200s. per cwt., spot, and 190s., i.f., for shipment. Indian is 169s. 6d. per vt., spot London; for shipment, 160s., i.f., quoted. Spot Russian is 180s. per wt.

WAXES .- BEES' .- Dar-es-Salaam on the ot is 600s. per cwt.; shipment, 555s., i.f. Benguella on the spot is 600s., duty id (in bond, 550s.). November-December ing (in bond, 500s.). November-December ipment, 535s., c.i.f. Candelilla.—Spot ipplies are offered at 620s. per cwt.; shipment, 610s., c.i.f. Carnauba.—Prime, ellow, spot, 1,080s. per cwt.; shipment, 0,30s., c.i.f. Fatty grey, spot, 890s. per wt.; shipment, 875s., c.i.f. Montan.—Seibeck crude on the spot is 132s. 6d. per wt. Ouricuri.—Spot, 0.5 per cent. imurities, 800s. per cwt. Spermaceti.—pot supplies are from 2s to 2s 3d per lb. pot supplies are from 2s. to 2s. 3d. per lb.

ANISE. — Firmer. Spot quotations are 0s. 3d. per lb. in original drums; for hipment, 9s. 9d., c.i.f., nominal.

5s. 6d. per gall. in 1-gall. tins: delivered. eterinary is from 12s. per gall.

CUBEBS.—English-distilled is offered at rom 50s. to 55s. per lb. Imported is quoded at from 60s, to 65s.

DILL.—English-distilled oil is quoted at

DILL.—English-distilled on is quoted about 62s, per lb. for B.P. quality. Imported oils are offered at from 45s, to 5s, per lb., as to holder. East Indian, 28. 6d., spot. Dill.—English-distilled oil is quoted at Cyprus Malts Londo th 80

GINGER.—Firm. English-distilled oil is n the region of 170s. to 230s. per lb., as o grade. Imported oils are available at rom 175s. to 180s. per lb.

HYDNOCARPUS. — Spot quotations are did bout 2s. 3d. per lb.; for shipment, 2s., i.f.

JUNIPER BERRY. — Imported oils are offered at from 22s. per lb., duty paid; new-crop for shipment is 21s. per lb., c.i.f. English-distilled is offered at 75s. to 95s. per lb., as to seller and grade.

LAVANDIN. — Spot quotations are 24s. per lb.

OLIVE. — French virgin oil in 48-gall. drums, spot, is 26s. 6d. per gall.; pharmaceutical, 26s, per gall., nominal. French virgin (maximum acidity 1 per cent.) is offered for shipment at £275; Tunisian virgin at £265; and French pharmaceutical (maximum acidity 0.25 per cent.), at £260 per 1,000 kilos, c.i.f. London.

Orange.—In short supply. West African is about 38s. 6d, per lb., duty paid. Palestinian is about 30s. per lb.

Palmarosa.—Spot quotations are nominally 55s. and 52s. 6d., c.i.f., forward.

PENNYROYAL.—New-crop for immediate shipment is offered at from 29s. to 35s, per lb., landed, duty paid, as to source. Spot supplies are available at 35s, per lb.

PEPPERMINT. — Chinese arvensis oil on spot is scarce. Limited supplies at 36s. 6d. per lb. Brazilian on spot is 28s, per lb. Continental "Mitcham" piperita is offering at 65s.

PINE.—Pumilionis on the spot is quoted at from 18s. to 20s. per lb.; sylvestris, is at about 11s. per lb., and Siberian (abietis) is about 20s. per lb.

WORLD TRADE

Canadian Potash Deposits.—One of the three largest known fields of potash in the world is being developed at Unity, Saskatchewan. The bed has been ascertained to be eleven feet thick and to extend for at least twelve miles.

British Exports to Argentine.—Exchange permits are to be issued for the importation into the Argentine of a number of British goods listed under the Anglo-Argentine trade protocol. A list just issued by the Central Bank includes chemicals and drugs. No quantities are specified.

French Deteregent Factory.—A plant claimed to be the most modern of its kind in Europe, for the manufacture of detergents, is now operating at Petit-Couronne, Rouen, France. The plant, which has a designed capacity of 25,000 tons per annum, is owned by Société Shell Saint-Gobain.

Japan to Export Sulphonamides.—For the first time since the war Japan will shortly export sulphonamides to Hong Kong, according to a report from Tokio. It was stated that inquiries from Hong Kong for Japanese-made sulphonamides had been large since Hong Kong was included in the Anglo-Japanese payments agreement and the initial shipment was expected to be followed by further consignments after the issue of a certificate by the Hong Kong Government.

PRINT AND PUBLICITY

Christmas Price List .- Butler & Crispe, Ltd., 80 Clerkenwell Road, London, E.C.1, have issued a second Christmas price list of 8 pp.

Cinchona Alkaloids in Medicine.-The London Cinchona Bureau, 10 Princes Street, Westminster, London, S.W.1, have published a 28-p. booklet: "Ouinine, Quinidine and Other Cinchona Alkaloids in Clinical Practice."

Competition for Beauty Kits.—Eyelure, Ltd., Stanborough Road, Welwyn Garden City, Herts, are organising a special sales and publicity programme for Eyelure products in towns where the film "The Secret of Convict Lake" is to be shown.





Counter display stands issued by Beecham (Northern), Ltd., St. Helens. Stands are also available for Phosferine (three of each size) and Germolene (single tin).

Press Campaigns.—An extensive winter advertising campaign for Amami hand jelly has been launched in the large circulation women's weekly and monthly publications by Pritchard & Constance, Ltd., North Circular Road, London, N.W.10.

Medical Leaflets.-Leaflets, folders and booklets, etc., obtainable from manufacturers include those listed below:—

Abbott Laboratories, Ltd., Wadsworth Road Perivale, Greenford, Middlesex: "What's New," September-November, 20-p. illustrated booklet on medical subjects.

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, "In Macrocytic Anæmias-Euhaemon" (4-p. leaflet).

Menley & James, Ltd., 123 Coldharbour Lane, London, S.E.5: "Furacin Soluble Dressing" (16-p. booklet).

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1: dehydrocholin B.D.H. and Mycil pessaries (blotter); "Pernivit for Chilblains"; "Mepilin"; "Aqueous Lutoform"; "Oestroform Aqueous" (4-p. leaflets); "Aqueous Testaform" (6-p. broadsheet); "Dehydrocholin B.D.H." (4-p. leaflet).

THE DISTILLERS Co. (BIOCHEMICALS), LTD., Fleming Road, Speke, Liverpool, 19: New leaflets on the following products: streptomycin sulphate

D.C.(B).L.; dihydrostreptomycin D.C.(B).L.; taquaine fortified; Distaquaine suspension; D quaine G; Distivit B12.

THE MURPHY CHEMICAL Co., LTD., Wheatha stead, Hertfordshire: "Butoyle"; "Deenomo (4-p. leaflets); "Winter Wash Booklet, 1951-(16-pp.).

TRADE MARKS

From the "Trade Marks Journal," October 3

For medicinal preparations for the treatment asthma (5).

RELASOR, 701,220, by Nascimento de Wil gold, Paris.

From the "Trade Marks Journal," November For chemical products used in the manufactur perfumery, soaps and cosmetics (1).

YSMINIA, 700,331, by Firmenich & Geneva.

For fertilisers being compounds of enzymes (BACTAZYME, 701,534, by Pattullo Higgs 3 Co., Ltd., Orpington.

For non-medicated toilet preparations (3). VISTA, 698,626, by British Glues & Chemi Ltd., Welwyn Garden City. REVLON, 699, by Revlon Products Corporation, New Y WHITE RAIN, 700,697, by Gillette Safety R Co., Boston. TANTIVY, 701,187, by J. Fl Ltd., London, S.W.1

For cosmetics (3).
COSMEIN, VAYLIT, 700,223-24, by Boots 1 at Drug Co., Ltd., Nottingham.

For infants' and invalids' foods and disinfect

KARDOMAH, 661,716, by Kardomah, I Liverpool.

For disinfectants (5).

WOODMEN, 698,271, by Joyce Mary Fe Nott, Epsom.

For pharmaceutical preparations and substant

BIOGLAN VITA-E GELUCAPS, B700,025 the Bioglan Laboratories, Ltd., Hertford. COTA, 700,188, by Boots Pure Drug Co., I Nottingham. TRILLADYNE, 701,338, by Ronald Witt, Southampton.

For dietetic foodstuffs and foodstuffs for in the

LIGA, 701,209, by Liga Fabriken, Bergen 1 Zoom.

For pharmaceutical preparations for human veterinary use and for hygienic purposes (5). FORBINA, 701,371, by Ciba, Ltd., Basle.

Answers to Revision Question

1. The terms refer to emulsifying age which dissociate, the characteristic surface active group which confers emulsify properties on the molecule being in anion or cation respectively.

2. These are summarised in the (p. 666).



Don't thank me

I'm only the girl on the counter box who sells the product. Thank the genius who gave you new sales and every housewife what she has been desperately wanting 'Proof,' the new waterproofing barrier that really does stand up to modern washing powders in hot water.

By their very efficiency as grease solvents, they first whip off soft cream barriers then take out all the natural oil from the hands. No wonder they're rough. But that's all over now. 'Proof' waterproofs hands. So the solvents never touch them; hands stay naturally soft and white.

I am the girl in the advertisements, too. See me in the Radio Times <u>this</u> week telling 8 million women what a boon 'Proof' is—and telling them to get it from you. One M.P.S. put me on his counter with 3 dozen on Friday; I sold 25 by Saturday night.

PROOF PREVENTS dishpan hands

roof' sells for 3/- a jar (month's supply) with only 33½% P.T. Wholesale price 21/7d a dozen. Bonus: 12 arged as 11 if you mention the C & D and it's your first order. Counter box with all retail deliveries. Order now lie the advertising is running. Sole Selling Agents, Walter Crowe Ltd., 3/4 Little Russell Street, London, W.C.I.

Δ

STRIKING NEW ADVERTISING

for the new idea in foot comfort

"Like Walking on Pillows

Everyone with tired, aching, tender feet wants to wear them. Sell on sight and sell on touch . . . feel the amazing comforting softness of the Latex Foam!

Dr Scholl's NEW AIR-PILLO Insoles



- I. Relieve Painful Callouses. Tenderness
- 2. Give Feet Soft Bed to Rest Upon-Eases Pressure on Nerves of Feet
- 3. Cushion Sore Heels, Keep Feet Warm in Winter

Tie up with Dr. Scholl's big new National Advertising Campaign by getting this

ATTRACTIVE, COMPACT. SALES-MAKING **COUNTER-STAND**

Metal! Permanent!

FREE with introductory order for 4 dozen assorted sizes.

All sizes from 6 to 12 (Men's). 2 to 8 (Women's)

Retail

W'sale

3/9 pair

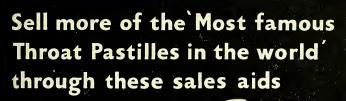
29/6 dozen

PROFIT 34.4%

NO PURCHASE TAX ORDER TODAY

D' Scholl's NEW AIR-PILLO INSOLES LIKE WALKING ON PILLOWS







tilles as a certain relief for coughs, colds, sore throat and huskiness. The market is growing. Cash in on the larger demand

this winter. These displays will help to lift the seasonal sales to new records. Be ready

with adequate stocks. Display matter as

illustrated supplied free.

EVANS

THROAT PASTILLES

HROAT

THROAT PASTILLES

Made in England by

390a

EVANS MEDICAL SUPPLIES LTD.

LIVERPOOL AND LONDON

Overseas Companies and Branches: Australia, Brazil, Eire, India, Pakistan, South Africa, South-East Asia

For the relief of spasmodic and unproductive coughing . . .

IPECOPAN

an association of alkaloids of ipecacuanha and opium, which loosens bronchial secretion and exerts a sedative action on the cough centre.

MALTED TABLETS — ORAL SOLUTION

Literature and samples available on request



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OLVE YOUR PACKING PROBLEMS BY THESE BOTTLES EESIGRIP UTILITY USING

OILTITE



IODINE Fig. 708 ½, I, 2 oz. /6, 6/-, 6/11 doz.



CORN CURE Fig. 427 Amber ½ oz. Rod 3/- doz. Brush 4/6 doz.

rder them by name and avoid disappointment ctual Makers: M. J. FECHER LTD. Est. 1891 · 121 HIGH STREET, SLOUGH, BUCKS.

White or Amber

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OILTITE POISON

Fig. 801 Amber $\frac{1}{4}$, $\frac{1}{2}$, I oz. 6/-, 6/3, 6/6 doz.



Fig. 817/W White ½, 1, 2 ozs. Brush 6/-, 6/3, 7/4 doz.

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Remarkably successful results have followed the use of Pernivit in the treatment of chilblains and in their subsequent prevention.

Pernivit is now available in this display carton containing six bottles.





Nicotinic Acid B.P. and Acetomenaphthone B..

Bottle of 50 tablets

TRADE RETAIL 2/- 3/-

THE BRITISH DRUG HOUSES LTD. LONDON

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Remember last winter?

The 'flu epidemic set up an unprecedented demand for Beecham's Powders, which many of our customers had difficulty in meeting. It was almost impossible to keep pace with the phenomenal demand. Nor were the public willing to accept substitutes — they wanted Beecham's Powders.

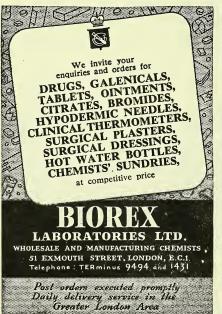
This year the stock problem can be avoided. Keep an eye on your stocks. Make sure you are never without Beecham's Powders and Beecham's Powders in tablet form. It's the only way to safeguard yourself against disappointed customers, loss of sales, and loss of profits.

ORDER BEECHAM'S POWDERS NOW—while they're on your mind Then you'll be all set for record winter trade.



BEECHAM (NORTHERN) LIMITED ST. HELENS, LANGASHIRE





TWO WAYS TO HEALTH -

Blakey's Malted Milk

A delightful and nutritious drink whether made with water or with milk. Aids digestion and encourages deep refreshing sleep.

I lb. tin 3/11





Blakey's Malted Oats Known for 60 years the ideal cereal food

the ideal cereal food babies and invalids enjoyed by the will family.

1 lb. carton 1/2 1 lb. tin - 2/6

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Eight leading women's magazines wil carry advertising to help you sel B.M.O and B.M.M.

BLAKEY'S FOOD CO. LTD., LINCO

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SATIN FLOW CLEANSING CREAM

Facial cleansing is easier and quicker with Max Factor's wonderful new flowing cream. Smooths on instantly... penetrates faster... removes make-up quickly, thoroughly...

leaves the skin clean, cool and refreshed. A certain extra sales-builder for you!

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Retailing at 7/4
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NIGHT FACIAL STIK

To guard against dry skin at nighttime all your customers have to do is simply stroke Max Factor's amazing new, concentrated night cream

over face and throat. It keeps complexions softer, smoother and younger-looking. It is easier, neater, nicer to use. Yet another sales winner from the "House of Firsts".

For the first time a night cream in STICK FORM.

Retailing at 5/9 Inc. P. Tax.

seauty Care Streamlined for the Woman of To-day

Max Factor

AX FACTOR HOLLYWOOD & LONDON (SALES) LTD., 16 OLD BOND STREET, LONDON, W.J

Christmas gifts with

IT pays to keep Steiner products well to the fore in your Christmas displays—because they are exactly what women are looking for in the way of gifts. These products are all intriguingly 'different'—not just the same old cosmetic lines—and they bear an exclusive name, recalling the patronage of high society and the prestige of a famous salon. As for the prices, they're way down to earth, an important factor this Christmas as all will agree!

Steiner preparations are just the kind of gift one woman loves to give another.

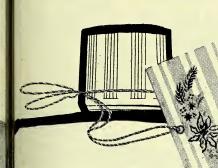
Steint HAND MILK
The Perfect Shirn
Progration

Proceedings

Display this attractive
Christmas gift label. It adds a
smart touch to a present
and will prompt those who
buy Steiner products for
personal use.



he Steiner touch



Steines.

... and here are the lines on which current advertising is concentrated:

starmist for shimmering highlights on the hair. The last word in cosmetics. Available in five shades.

HAND MILK (now containing Vitamin A) for soft and beautiful skin; an established favourite with women.

EAU de COLOGNE a delightful, well-balanced cologne appealing to men as well as women.

STEINER No. 66 a fine perfume primarily for the hair, but also just as fragrant on skin and fabrics.

All these are presented in the featherweight Steiner 'squeez-e-spray' bottle. Christmas shopping has a snowball effect. These other popular Steiner products are going to be in extra demand: S.3.creamshampoo, Sebosyn hair food, Lacquer Sheen, Setting Lotion, Hair rinses, Brilliantine, Eau Dentifrice, Flair personal razor and Slip-on Finger nails.



By appointment Hairdressers & Perfumers

STEINER PRODUCTS LTD.

66 GROSVENOR ST., LONDON, W.I

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in 30 second



FOR NASAL AND ORAL INHALATION

Each set contains one inhalator and two vials each containing three capsules each 100,000 units crystalline penicillin potassium salt RETAIL 16/6

ALSO SUPPLIED SEPARATELY

I INHALATOR RETAIL 5/-

I BOX 6 CAPSULES RETAIL 11/6

I BOX 9 CAPSULES RETAIL 14/9

ALLOWED ON E.C.IO FORMS

EXEMPT FROM **PURCHASE TAX**

THE ARMOUR LABORATORIES

LINDSEY STREET, LONDON, E.C.I

Telephone: Clerkenwell 9011 Telegrams: "Armosata-Phone," London



Retail price 2/9 per bottle, incl. P Trade price 18/- per dozen, plus 333% P KRAUTH CHEMICALS LTD . WEYBRIDGE . SUR

Keen buyers

buy Kay's Linseed Compound in 50/- lots and use the eye-catching showcard to make a striking display



DRUGS

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l. P.1 6 P.1 FOR CHEMISTS

ichard Daniel & On

SUNDRIES

PILLS · TABLETS

PROPRIETARIES

EAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)
RANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)



THOMAS WAIDE & SONS LTD., LEEDS

'CANDA'

S Now issued as



Tubes (NOT GLASS) with Plastic Screw Caps

attractive Plastic

UNBREAKABLE

IODINE MOSQUITO RETAIL 1/9 including Tax

ACRIFLAVINE CLEARSIGHT

RETAIL 1/6 (No Tax)

PRICES

12/- per doz. 11/6 per doz. for 3 doz. (assorted if desired). Plus 33\\\
33\\\
100 Tax on lodine and Mosquito.

The 'PEN' DISPLAY BOX contains I doz.

CLAY & ABRAHAM LTD., LIVERPOOL, I

Manufacturing Chemists

Est. 1813

good paper handkerchiefs . . .

More people want

More people want

Southalls

PAPER HANDKERCHIEES

These are the quality paper handkerchiefs that sell quickly and get asked for over and over again. Made of finest pure cellulose wadding, they are wonderfully soft to use. They're strong too - 3-ply with an embossed border. Attractive packs of 20 retailing at 9d. which come to you in packets of 3 dozen packs, at 73/9 per gross packs.

Order from your wholesaler now.

SOUTHALLS (Birmingham) LTD. Charford Mills, Saltley, Birmingham 8

BIGGER SALE

From Old-established Baby Remed

OUR new National Publicity has special appeal to mothers, reaching at least 20 million of them, through Women's Magazines and the Daily and Weekly Press. Be ready to meet the large demand by buildingup your stocks of Nurse Harvey's Mixture now. It's a best seller! Display material is available on request.



NURSE HARVEY'S BABY

POWDER (with olive oil) is rapidly gaining popular Be sure to include a supply in your next order.

O. SCRUTON & CO., LTD. Barker Lane, Yo

ILM STAR'S "GUEST APPEARANCE" BOOSTS CHEMIST'S TURNOVER!



"A film star serving behind my counter? No, but I've found something nearly as good for increasing counter sales," says this provincial chemist.

"And that's these film stars the Drene people put on their attractive little display pieces. They really do build sales..."

ORE and more chemists who realise the value of counter-sales are realising, too, how Drene film-star plays build counter sales. Consider these four points urself:—

Official figures show that four out of every five women are cinema-goers.

Drene is the favourite shampoo of the glamorous stars your women customers know so well.

These stars recommend Drene in the most attractive and effective advertising campaign in the Press today. Therefore, if you keep Drene film-star displays on your counter, they catch the eyes of film-fan customers. That means you sell even more Drene—and make a useful extra profit.

And remember, it's better to display good-selling les (ensuring even quicker turnover) than try to sh brands that are hard to move. So put Drene m-star displays to work for you, and win this extra, by profit.



Margaret Lockwood, one of Britain's leading stars, was featured on this recent Drene display. Keep Drene displayed on your counter and see how Drene's superior quality, plus the charm of famous film-stars, sells more Drene and makes more profit for you.

It's Good Business . . .





... and with very good reason too. She's confident because she's comfortable. And she's comfortable because she uses Silcot, the cotton-wool towel.

SILCOT SANITARY TOWELS

 Above are illustrated the December magazine advertisement and showcard. The showcards will be sent to all stockists. ... to sell a quality line which women can buy at a very competitive price, and which they ask for regularly;

... to sell a line which is constantly, effectively advertised in the leading women's magazines, reaching millions of women every month;

... to sell a line supported with a showcard-permonth scheme linking up with the national advertising;

. . . to sell



Sanitary Towels

Cotton-wool, with soft knitted covers and stitched loops

MACDONALD & SON LTD., HOPE MILLS, POLLARD STREET, MANCHESTER
Ardwick 1561-2

available! CHIORAMPHENIOL

B.P.



PRESENTATION

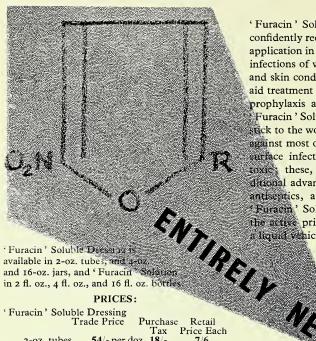
Bottles of 12 capsules each capsule containing 0·25 gramme

FOR SERVICE

OBTAIN WITH YOUR ORDER FOR PENICILLIN PREPARATIONS A&H

rom

LONDON & HANBURYS



'Furacin' Soluble Dressing is available in 2-oz. tubes, and 4-oz. and 16-oz. jars, and 'Furacin' Solution in 2 fl. oz., 4 fl. oz., and 16 fl. oz. bottles

PRICES:

'Furacin' Soluble Dressing

Trade Price Purchase 54/- per doz. 18/-2-oz. tubes 7/6 97/2 per doz. 32/5 13/6 27/- each 45/-

4-oz. jars 16-oz. jars 'Furacin' Solution

> Trade Price Purchase Retail Price Each Tax 2 fl. oz. bottles 54/- per doz. 18/-4 fl. oz. bottles 97/2 per doz. 32/5 7/6 13/6 16 fl. oz. bottles 27/- each 45/-

Further information on request

for surface infections

'Furacin' Soluble Dressing can be confidently recommended for topical application in treating the superficial infections of wounds, burns, ulcers, and skin conditions, and in the firstaid treatment of these conditions for prophylaxis against infection later. Furacin' Soluble Dressing does not sick to the wound, it is antibacterial against most organisms occurring in surface infections, and it is nontoxic; these, and its numerous additional advantages over other local antiseptics, are possessed also by 'Furacm' Solution, which presents the active principle—' Furacin'—in a liquid vehicle.

FIIBACIN

COLDHARBOUR LANE. LONDON.

'Furacin'* Soluble Dressing and Solution (British patents 627845 a) 649027) are manufactured by MENLEY & JAMES, LTD. (register users of the British trade mark 662699*) under licence from the owner EATON LABORATORIES INC.



VENUS'
first in the field · · ·
first in the Steld · · ·
with silky-soft Pastel Shade Tissues



VOW! 2/6 per box of 150 Tissues

Let your customers see that you stock VENUS TISSUES by keeping them permanently displayed in your windows and on your counters. This attractive pack constantly on view will increase your sales

HE original sales compelling Multi-coloured bispenser Box is AGAIN AVAILABLE - - -

Order through your usual wholesaler



POPULAR PACK IN THE LAVENDER SHADE DISPENSER BOX in white or peach.

★ Also Venus Paper Handkerchiefs in attractively designed cellophane envelopes

HE HY-G-NIC PAPER HANDKERCHIEF CO LTD RANVILLE PAPER MILLS, BRETTENHAM RD., LONDON, N.18



In ever-increasing demand

Dr. Jenner's

ABSORBENT LOZENGES

for INDIGESTION

GRAMS :

TAXED RETAIL PRICES

1/8: 3/11/2: 6/
Display material and terms particulars of terms request.

SAVORY & MOORE

STANDARD WORKS

LAWRENCE ROAD

LONDON N.15

PHONE : STAMFORD HILL 3456.

STOCKING UP FOR CHRISTMAS?

Remember Christmas is a peak season for CREEM

Brylcreem is the world's fastest selling hairdressing and at Christmas it sells even faster. Surveys and sales charts prove that Brylcreem—and the large tub in particular—is a favourite Christmas present.

This year the biggest ever advertising campaign ensures that public attention is focused on Brylcreem—appealing to wives, sisters and sweethearts to make Brylcreem "the gift for the heads of the family."

Make the most of this powerful campaign—feature Brylcreem on your counter and in your window. Stock up now! Brylcreem is a Christmas line!

DISPLAY

BRYLCREEM

AND SHOW A HANDSOME PROFIT!



COUNTY PERFUMERY CO. LTD., STANMORE, MIDDX.

royds 36/87

YOU CAN RECOMMEND WITH CONFIDENCE

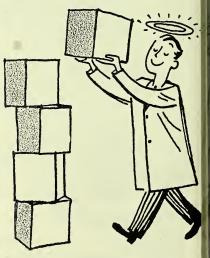


6 oz. size 12/- doz.



LOFTHOUSE & SALTMER
Manufacturing Chemists HULL

Please keep our cases . . .



we'll collect them!

It will help us greatly to mainta deliveries of Andrews Liver Salt if yo will kindly put the empty delivery cas safely aside until our traveller can colle them. We allow 6d. each for cartons good condition. **THANKS!**

ANDREWS

SCOTT & TURNER LTD.

ANDREWS HOUSE, NEWCASTLE-UPON-TYNE,
GT6/u/

7, 1951

The pancreatic enzymes

TRYPSIN and AMYLASE

contained in Benger's Food produce controlled pre-disestion of protein and starch thus greatly relieving the strain which would otherwise be placed on the impaired disestion during convalescence.



BENGER LABORATORIES LIMITED
HOLMES CHAPEL, CHESHIRE, ENGLAND

A SPECIAL OFFER

5 % EXTRA PROFIT FROM PLASTERS

Available only until December 31^{SI}

For the months of October, November and December, in consideration of your agreeing to display our range of plaster specialities for two weeks, we offer an additional 5% discount on orders over £5 for the following plasters only.—

"CARNATION" CORN CAPS

(Not more than 3 doz. in £5 parcel or 6 doz. in £10 parcel)
(and pro rata)

"ADAPTOPLAST" FIRST AID DRESSINGS

(£5 parcel must include 3 doz. 9d. and 1 doz. 1/6 tins.) (£10 parcel must include 6 doz. 9d. and 2 doz. 1/6 tins.) (and pro rata)

- "SANOID" BOIL TREATMENT
- "VARIBAN" N.H.S. ELASTIC ADHESIVE 3" BANDAGES B.P.C
- "THERMOID" ANODYNE PLASTERS

A selection of attractive display material will be sent with all qualifying orders.

THIS DISCOUNT WILL BE IN ADDITION TO THE NORMA 2½% ON £5 PARCELS & 5% ON £10 PARCELS

Send your orders on your ordinary form or on the special forms supplied by representatives.

Cuxson Gerrard & Co. Ltd.
OLDBURY BIRMINGHAM

CARNEGIE

Manufacturing Chemists

CARNEBROS BRAND

AESCULIN

ALOIN

AMIDOPYRIN

ATROPINE & SALTS

BARBITURATES

BISMUTH SALTS

BROMISOVALERYLUREA

CAFFEINE & SALTS

CHLORAL HYDRATE

CHRYSAROBIN

CITRATES

MAL

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ESERINE & SALTS

HYOSCINE HYDROBROMIDE

IODIDES

LITHIUM SALTS

P.A.S.

PHENAZONE

PODOPHYLLIN RESIN

OUININE & SALTS

SALICYLATES

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STRYCHNINE & SALTS

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ETC.

CARNEGIE BROTHERS (1949) LTD

WELWYN GARDEN CITY: HERTFORDSHIRE: ENGLAND
TELEGRAMS: 'CARNEBROS' WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 Hnev

A 'CARNEGIES OF WELWYN' COMPANY

Heavy Advertising will be saying Blue Orchid this Christmas

and so will more and more customers!

See that you are adequately stocked with the extensive range of Blue Orchid Perfume and Beauty Preparations for the Gift Season. Lovely showcards in full colour to back your displays freely available on application.



THE LOVELIEST WAY OF SAYING

Slue Orchid PERFUME & BEAUTY PREPARATIONS

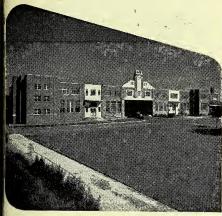
Ask for Illustrated Price List from your wholesaler or from

DELAVELLE. ROAD. LONDON. N . I



chemists only ...

NOW IN OUR 144th YEAR OF TRADING, IT IS OUR POLICY AT MAW OF BARNET TO MARKET PRODUCTS ONLY THROUGH THEMISTS.



Our advertising is being increased and we now have advertisements appearing at frequent and regular intervals in the National Press and Women's Magazines for:—

VELFIN SANITARY TOWELS. MAW'S TEATS AND MAW'S FEEDING BOTTLES.

Every advertisement carries the message "Chemists Only"

At Barnet we have our Head Office, Factory, Warehouse and Laboratory where we will always make you welcome should you wish to pay us a visit.

At our London Showroom, 67, Jermyn Street, near St. James's St.) we have on display a wide variety of Merchandise and Shop Fittings for your inspection and our staff will welcome the opportunity of showing you ound between the hours of 9 a.m. and 5.30 p.m. any weekday or by arrangement on Saturday mornings.

From 9 a.m. to 4.30 p.m. at the same address our Surgical Fitting Rooms are open for the convenience of your customers both male and female. To avoid any unnecessary waiting, it is always advisable to arrange for an appointment. Phone: Whitehall 5255.



...chemists only

S. MAW SON & SONS LTD.

ALDERSGATE HOUSE, CROMER ROAD, NEW BARNET, HERTS.

PHONE: BARNET 5555

Tantigen 'B' sales drive producing

Are you reaping the full benefit?

Take full advantage of thousands of pounds being spent on National advertising directing sufferers from Catarrh and Bronchitis to chemists' counters.

Display Lantigen 'B' where your customers can see it!

—make leaflets readily available . . . emphasise the fact that LANTIGEN 'B' is a dissolved oral vaccine treatment and is taken like ordinary medicine . . . point

out that although LANTIGEN 'B' costs one guinea plus 4/8 tax, the treatment works out at only a few pence a day.

* 7/- PROFIT FOR YOU ON EVERY SALE

PLUS 5% display discount on all orders
for 6 or more Lantigen vaccines to you selection.

Stock up to meet this new demand. Counter displays and leaflets free from:—

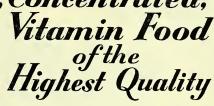
Sole distributors:

J. C. GAMBLES & CO. LTD.211 Blackfriars Road, London, S.E.1.

OVER 2,000,000 BOTTLES SOLD THROUGHOUT THE WORLD

LANTIGEN (ENGLAND) LTD., BAGSHOT, SURREY

A Delicious, Concentrated,



A Product of the Ovaltine Research Laboratories

O the physician requiring a product which incorporates important vitamins in a form acceptable to every 'Vimaltol' patient, presents special advantages.

'Vimaltol' is made from specially prepared malt extract of high protein content, yeast—one of the richest sources of vitamin B-and Halibut Liver Oil, an important source of vitamins A and D. It is also fortified with additional vitamins and mineral salts, and is deliciously flavoured with orange juice.

Standardized to contain in each ounce 1420 i.u. of vitamin A and 710 of vitamin D, also 0.35 mg, of vitamin B₁, 0.2 of vitamin B₂ (riboflavin), 2.8 of Niacin (P.P. vitamin), and 3.3 of iron, in a readily assimilable form.

'Vimaltol' is thus an important aid in the treatment of the many abnormal conditions resulting from the deficiency of one or more of the essential vitamins in the average everyday dietary.

The routine use of 'Vimaltol' helps normal development of the growing organism and the maintenance of correct metabolism, while raising the general resistance against infection.

'Vimaltol' has thus a very wide application in general practice for children and adults of all ages. It can be recommended with advantage at all seasons.

On the P.A.T.A.

Trade Prices:

1 lb. jars 30/6 per doz.;

2 lb. jars 54/- per doz.

(Exempt from Purchase Tax.)

Retail Prices: 1 lb. jars 3/6; 2 lb. jars 6/3 A. WANDER LTD.,

42 Upper Grosvenor St., Grosvenor Sq., W.1.



COSE

YOU

)rden



ELIXIR CEREVON provides for the first time in this country, FERROUS GLUCONATE, the ferrous salt of d-Gluconic acid containing 11.5% Iron, 95% of which is in the ferrous state. Ferrous gluconate is more readily assimilated and utilised for haemopoiesis than ferrous sulphate and is well tolerated, even in patients who experience

nausea and gastric upset after taking ferrous sulphate.

> (1) Full page advertisements have appeared and will continue to appear in the leading medical

(2) All General Practitioners and Hospital Pharmacists have been separately advised by post.

(3) Our Medical Propagandists are detailing this product almost exclusively this month. (4) ELIXIR CEREVON will be especially featured at our Stand No. 105 at the London Medical

Exhibition next week.

ELIXIR CEREVON is prescribable on Form E.C.10.

PACK PRICES

Retail - 7/6d. plus 1/8d. P.T. 4 oz. Trade — 60/- per doz. plus P.T.

80 oz. (For Dispensing) -90/- each, plus P.T.



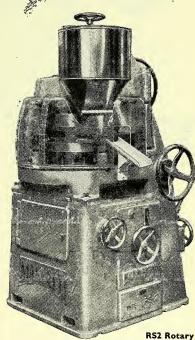
MEDICAL DEPARTMENT, CALMIC LIMITED, CREWE, Tel: Crewe 3251/

MANESTY means precision-built

Leading tablet makers throughout the World have long that the name recognised MANESTY on tablet preparation and compressing machinery is an assurance of all that can be desired in accuracy of construction and reliability of performance. Behind the name MANESTY there now lies the skill and experience of its associated company - John Holroyd & Co., Ltd., who for over 70 years have specialised in the production of machine tools and precision gearing, and who made rotary tablet machines more than 50 years ago.







Tablet Machine

Testing rotary turret on Holroyd gear testing machine.

MANESTY MACHINES LTD

DEPT. 5, SPEKE, LIVERPOOL, 19

Telephone: Hunts Cross 1972. Telegrams: Manesty, Liverpool

BLET MACHINES . COATING PANS

GRANULATORS · DRYING OVENS · MIXERS AUTOMATIC WATER STILLS



Reasons why you should stock DALMAS

YOUR CUSTOMERS may be vague about their choice of a first-aid dressing, but once you serve them Dalmas they'll come and ask you for again—by name. That's because, among first-aid dressings, Dalma is unique.

OTHER DALMAS PRODUCTS YOU WILL WISH TO STOCK

DALMAS STRAPPING. A waterproof strapping with 101 first-aid uses for customers and doctors. Supplied on metal spools, or in blue plastic containers.

DALMAS VACCINATION SHIELDS. A new waterproof vaccination dressing, increasingly used by doctors, available in two sizes, the smaller being for children.

DALMAS FINGER-TIP DRESSINGS. A waterproof dressing for cracked, cut, or sore finger-tips.

Dalmas Boil Plasters. A water-proof dressing to protect boils.

DALMAS LTD.

LEIGESTER (Phone: Leicester 65261)

London Depot: 140-142 St. John Street, E.C.1. (Clerkenwell 3399) Scottish Agents: Robert Telford, 29 Waterloo Street, Glasgow, C.2. (Central 2716) St. Dalmas (Ireland) Ltd., Henrietta Place, Dublin.



Waterproof— Because it is 100% wate proof it is possible to take a bath whi wearing a Dalmas first-aid dressing.



Stretches to fit in all directions — Dalmas first-aid dressing, once applied, literally like a second skin. It stretches fit in all directions. Even when worn ow a knuckle or other joint it allows for complete freedom of movement.



Will not fray or come off — A Dalm first-aid dressing is exceptionally adhesive. There is absolutely no danger of it comin off. The edges will never curl up; fray, catch in clothing.



Greaseproof, Acid-proof — Dalma first-aid dressings are invaluable first-laid dressings are invaluable first-laid dressings are invaluable first-laid dressings are invaluable first-laid dressings are invaluable for anyone who has a diright job to do. They give complete protection against the dangers of infection fro dirt, grease, or acid.

Dalmas first-aid dressings are supplied i useful 1/- tins, containing dressings ovarious sizes to fit any small wound.

DISPLAY THE BLUE TIN WITH THE WHITE HAND

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dress i for i Valma

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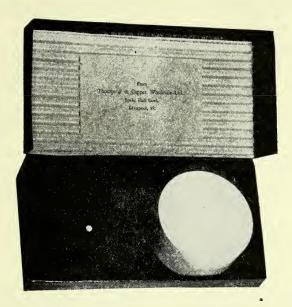
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We manufacture tablets of all types and shapes and sizes, whether they be Chemicals, Pharmaceuticals, Drugs, Proprietaries, Pre-form Plastics, Inflation Pellets, Foodstuffs, Confectionery, Soups, Vitamins, Tea Tablets, Salt Tablets, Pea Steeping Tablets.

We should be glad at any time to carry out experiments for you, should you have any material which you would like to see in tablet form.

This illustration will give you some idea of the great capacity and versatility of our tablet compressing plant.

'HOMPSON & CAPPER WHOLESALE LTD., LIVERPOOL, 19.

e'ephone: HUNTS CROSS 1321. Telegrams: 'SANITAS, LIVERPOOL.'

FOR INFECTIOUS SORE THROAT

FORMA

TRADE MARK

CONCENTRATED GARGLE AND MOUTH WASH

This preparation contains Formalin, Glyc. Phenolis, Tinct. Pyrethri, Chloroxylenol, etc., and when diluted in the proportion of one teaspoonful in a tumbler of water forms a pleasant gargle for infectious sore throat, or an antiseptic mouth wash, especially after extractions.

In ribbed oval bottles of 2, 4 and 8 fl. ozs.

2 oz. Cost 12/- doz. plus P. Tax 4/-. Retail 1/10 each.

4 oz. Cost 21/- doz. plus P. Tax 7/-. Retail 3/3 each.

8 oz. Cost 38/- doz. plus P. Tax 13/-. Retail 5/10 each.

Also clear glass bottles of 20 and 90 fl. ozs. for dispensing. These prices apply in the United Kingdom only

Literature from

C. J. HEWLETT & SON, LTD.

35-43 CHARLOTTE ROAD, LONDON, E.C.2 also at 216 Orr Street, Glasgow, S.E.

TRUSSES

John Bell & Croyden are specialists in the manufacture and fitting of Trusses, both of the Steel Spring and Elastic Band Types. Comprehensive supplies always in stock, or made specially to order at short notice.

Enquiries invited for

ELASTIC HOSIERY SUSPENSORY **BANDAGES**

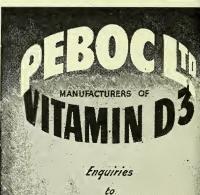
and other appliances available on E.C.10 Forms

Usual Trade Terms

Catalogue sent on request

IOHN BELL & CROYDEN SURGICAL APPLIANCE DEPARTMENT

WIGMORE STREET LONDON Telephone: WELbeck 5555 (20 lines) Telegrams: Instruments, Wesdo, London



SALES OFFICE: 629. TOWER BUILDING. WATER STREET. LIVERPOOL. 3.

LABORATORIES · GREENFORD · MIDD



Muffler Time is 'Kepler' time! And more and more mothers are coming to realise how valuable 'Kepler' is

during the winter in providing extra nourishment, promoting sturdy growth and building up defence against infection. That is why, especially after the lessons learned from last winter's influenza epidemic, mothers will be asking you for 'Kepler'—not only for the children, but for the adults in the family,

too! Make sure your stock of 'Kepler' is large enough to deal with this winter's demand; if it's not, you will be well advised to ORDER NOW!

'KEPLER'

COD LIVER OIL WITH MALT EXTRACT

Protects the bodies it builds



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.), LONDON, N.W.1

Order now for Xmas!







Cinet's Old English' Pot Pourri

TWO SIZES PACKED IN ATTRACTIVE DISPLAY BOXES
OF ½ DOZEN SMALL OR ¼ DOZEN LARGE

SMALL SIZE COSTS 24/- DOZEN AND RETAILS AT 5/6

LARGE SIZE COSTS 39/- DOZEN AND RETAILS AT 9/PURCHASE TAX 100%



WARRICK BROS. LTD. · LONDON · N.1



Hurrah Horatio!

Although Luke Howard, the founder of Howards was almost certainly too conscientious a Quaker to approve of anything to do with war, there is some evidence that his workpeople celebrated in an appropriate manner Nelson's victory at Trafalgar. In one of the company's boxes of records, labelled 1805, has been discovered a bunch of home-made squibs. This was probably the one and only time that Howards ventured into the firework industry, for even in 1805 they were very well occupied in developing the already established manufacture of such chemicals as Acetates, Bismuth Salts, Citrates and Ether.

Then, Howards were, as they are now, leaders in the manufacture and refinement of pharmaceutical chemicals.



Bromides, Citrates
Iodides, Iron Salts
Bismuth Salts
Sodium Bicarbonate



Lactates, Aspirin Salicylates, Ethers Quinine Salts Tablets-etc.-etc.

HOWARDS & SONS LTD · ILFORD near LONDON

TBW/FC

Her th



and antiseptic is a colourless viscous liquid with a faint pleasant odour, for use in medical treatment and for pharmaceutical preparations. Phenoxetol is especially effective against certain gram-negative organisms, including Ps pyocyanea. It is used by local application—by wet dressing, instillation or irrigation-in the treatment of infected wounds, abscesses, indolent ulcers, associated with Ps. pyocyanea. It should ulcers, associated with Ps. pyocyanea. not be used for parenteral injection.

Phenoxetol is very effective in pyocyanea infec tions of burns or superficial wounds. It is especially useful for skin grafting, in dermatitis associated with Ps. pyocyanea, and for the sterilization of tuberculosis cavities infected with Ps. pyocyanea.

In addition to its anti-pyocyanea activity, Phenoxetol is an excellent preservative for penicillin creams and other pharmaceutical and medicinal preparations. Not only does it protect the creams from deterioration caused by various organisms such as mould and fungi, but it also prevents the inactivation of penicillin itself by inhibiting the growth of B. coli and other peni cillinase producing organisms.

The following formula is successfully applied for Penicillin Cream:-

Lanette wax SX Liquid Paraffin 3.5 g. 15 ml. ---Penicillin Solution Phenoxetol 5 ml. 2 ml. ad. 100 ml. Aqua redest ... also

Para-Chloro-Phenoxetol, the antifungous com-pound specifically active in ointments, powders and solutions against infections by Trichophyton-Epidermophyton - Microsporum and Monilia organisms.

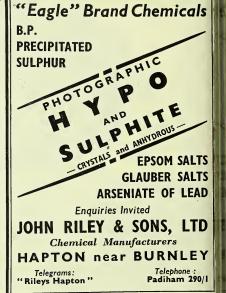
LABORATORIES LIMITED

TREFOREST TRADING ESTATE or CARDIFF TEL · TAFFS WELL 128

Sole Distributors for the United Kingdom P. SAMUELSON & CO.

Roman Wall House, 1 Crutched Friars, London, E.C.3

Telephone: ROYAL 2117/8



OUATERNARY AMMONIUM COMPOUNDS

Now available commercially LEDA CHEMICALS LTD., are pleased to announce that they are now manufacturing the

announce that they are now manufacturing the following quaternary ammonium compounds in commercial quantities:—
Lauryl Pyridinium Chloride Lauryl Pyridinium Chloride (broad cut) Cetyl Pyridinium Chloride (broad cut) Cetyl Pyridinium Chloride Mixed Alkyl Dimethyl Benzyl Ammonium Chloride Cetyl Dimethyl Benzyl Ammonium Chloride Stearyl Dimethyl Benzyl Ammonium Chloride ALSO AVAILABLE: HIGHER ALKYL CHLORIDES, broad and narrow cuts from C8-C18. Data sheets and full information gladly supplied on request. LEDA CHEMICALS LTD., Wharf Rd., Ponders End, Middx Tel. Oc.: HOWard 2231 Tele. Address: Ledakem, London

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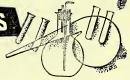
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1/8

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says London Chemist

A FEW days ago," said a busy London chemist, when we called on him cently, "I read an article in a Trade agazine about using display space for ods that really warrant display — ods that bring in extra business — stead of cluttering up the shelves and unters with ordinary every-day products at people buy anyway without being minded, or with items they get with their octor's prescriptions.

It seemed a good tip, so I thought I'd try
I cleared away a lot of the routine stuff
om one counter and window and replaced



"It's always a good plan to have all three sizes of Ibcol—9d., 1/3d. and 2/-— on display together. Then customers see the advantage of buying the big size."

TD.



"Why use valuable display space for routine products that people buy anyway? Much better to display Ibcol and do extra business."

it by displays of Ibcol, the all-purpose germicide. I chose Ibcol because of its quality and value. After all, if it's good enough for hospital wards and operating theatres, it must be a pretty high quality product. At the same time it's reasonably priced and is excellent value to the public. What's more, it shows a really worthwhile profit for the chemist.

Well, I was doubtful about getting extra business, but I've really been surprised at the way my Ibcol sales have increased. And without losing on my ordinary stock lines.

There's no doubt about the fact that housewives are becoming more and more hygiene-conscious and Ibcol seems to be the brand they ask for. It's hardly surprising, of course, when you consider that Ibcol is a top quality product at only half the price of many brands. And with the tightening up of money that's an important factor in the mass-market."

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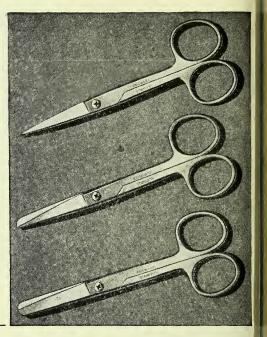
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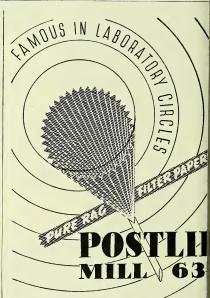
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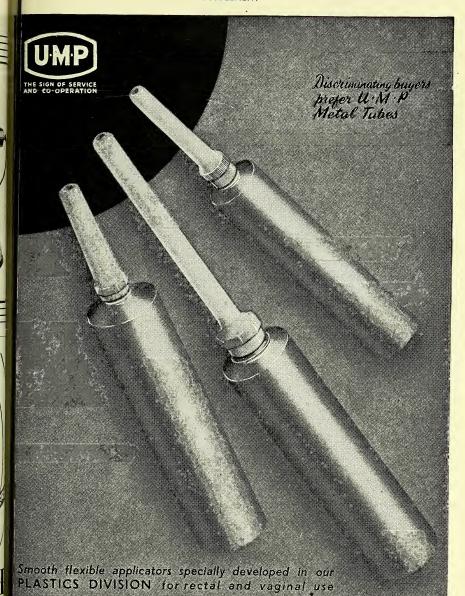
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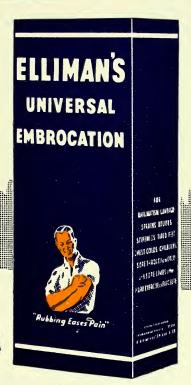
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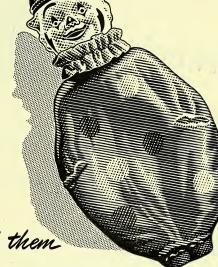
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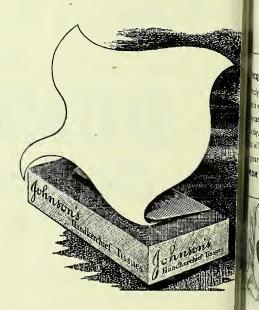
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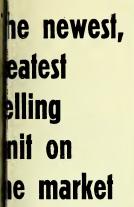
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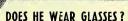
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ACLEANS





Today, twenty million people wear glasses. Every customer who comes into your shop wearing glasses is a prospec-tive customer for MACLEANS LENS CLEANERS.

TRY A SAMPLE ON YOUR GLASSES LENS CLEANERS FOR GLASS SPECTACLES IMPREGNATED WITH SILICOHES MACLEANS LENS CLEANING TISSUES MACLEANS LENS CLEANERS

are impregnated with SILICONES-chemical cousins of glass. Optical experts who have tested these say, that this is the ideal way of cleaning eye glasses. They also prevent surface scratches and the adherence of dust, dirt or grease. Over half your adult customers wear glasses. Stock the ONLY silicone-treated tissues on the British market - made, packed and advertised by MACLEANS.

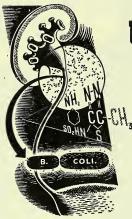
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Macleans Lens Cleaners are supplied in unique showboxes holding 48 packets of tissues, plus a showcard and a generous supply of free sampling tissues Display MACLEANS LENS CLEANERS on your counter and encourage sampling.

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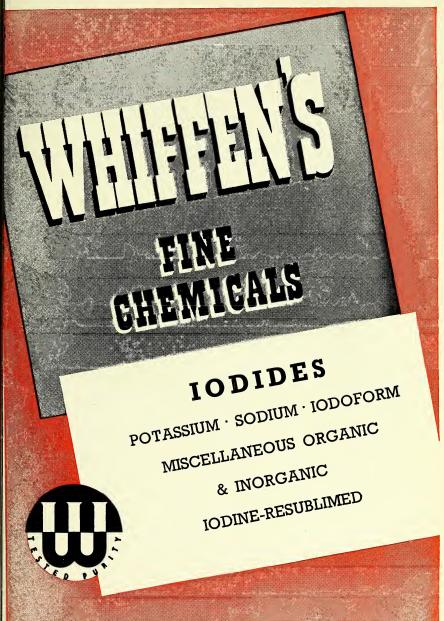
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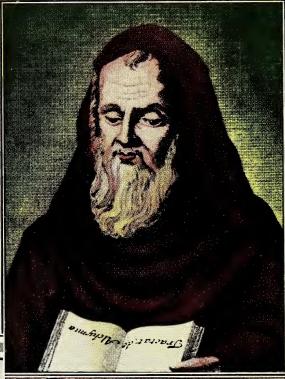


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CHEMIST AND DRUGGIST

NOVEMBER 17, 1951



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